

APPENDIX A

Boring Logs/Well Construction Diagrams

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS.....	B-iii
1.0 DRILLING AND WELL INSTALLATION.....	B-1
J2P-20 (MW-289)	B-1
J2P-18 (MW-292)	B-2
J2P-29 (MW-293)	B-2
J2P-30 (MW-296)	B-3
J2P-31 (MW-300)	B-3
J2P-32 (MW-302)	B-3
J2P-33 (MW-305)	B-4
J2P-28 (MW-307)	B-4
J2P-22 (MW-310)	B-4
J2P-34 (MW-313)	B-5
J2P-35 (MW-318)	B-5
J2P-21 (MW-319)	B-6
J2P-24 (MW-321)	B-6
J2P-36 (MW-322)	B-6
J2P-23 (MW-324)	B-7
J2P-38 (MW-327)	B-7
J2P-37 (MW-330)	B-7
J2P-40 (MW-331)	B-8
J2P-27 (MW-334)	B-8
J2P-26 (MW-335)	B-8
J2P-25 (MW-336)	B-9
J2P-39 (MW-337)	B-9
J2P-19 (MW-339)	B-10
J2P-42 (MW-340)	B-10
J2P-41 (MW-342)	B-10
J2P-43 (MW-345)	B-11
J2P-44 (MW-348)	B-11
J2P-46 (MW-351)	B-11
J2P-45 (MW-354)	B-12
J2P-47 (MW-355)	B-12

J2P-48 (MW-357)	B-13
J2P-50 (MW-358)	B-13
J2P-49 (MW-362)	B-13
J2P-52 (MW-365)	B-14
J2P-51 (MW-366)	B-14
J2P-54 (MW-367)	B-14
J2P-53 (MW-368)	B-15
J2P-55 (MW-372)	B-15
J2E-DP1 (DP-371).....	B-15
J2E-DP2 (DP-377).....	B-16
J2P-56 (MW-381)	B-16
J2P-57 (MW-388)	B-16
J2P-60 (MW-393)	B-17
J2P-58 (MW-399)	B-17
J2P-59 (MW-436)	B-18

ACRONYMS AND ABBREVIATIONS

2-NT	2-nitrotoluene
2A-DNT	2-amino-4,6-dinitrotoluene
2,4-DANT	2,4-diamino-6-nitrotoluene
2,6-DNT	2,6-dinitrotoluene
bgs	below ground surface
DP	drivepoint
ft	feet
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
MMR	Massachusetts Military Reservation
msl	mean sea level
MTBE	methyl tert-butyl ether
MW	monitoring well
PCE	tetrachloroethene
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
VOC	volatile organic compound

(intentionally blank)

1.0 DRILLING AND WELL INSTALLATION

During the J-2 groundwater investigation outlined in the *Final J-2 Range Supplemental Groundwater Workplan for the Camp Edwards Impact Area Groundwater Study Program* [AMEC. 2003 (December) Massachusetts Military Reservation, Cape Cod, Massachusetts. AMEC Internal Tracking No. MMR-8139. Westford, MA.] numerous drilling locations were revised and 35 drilling locations were added. During the beginning of the investigation some of the monitoring well (MW) locations proposed in the workplan varied slightly for constructability and/or access reasons. As the investigation progressed drilling locations were revised from locations outlined in the workplan or were added based on results from groundwater profile samples collected during the investigation, revised particle tracking, and revised fate and transport modeling conducted during the investigation. All of the changes to the drilling program were conducted with full concurrence of the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MassDEP).

The following discussion of MW and drivepoint (DP)/microwell installation is presented in chronological order based on the date drilling was completed at each location. The MWs and DPs installed as part of this investigation are shown in Figure 2-1. The MWs are summarized in Table 2-1. These wells supplement the other 65 wells that make up the suite of wells used to characterize the J-2 Range plumes as part of this investigation.

J2P-20 (MW-289)

Location J2P-20, designated MW-289 upon commencement of drilling (August 2003), was installed downgradient of Disposal Area 2, as proposed in the workplan, to evaluate the downgradient extent of contamination migrating from Disposal Area 2. MW-289 was located in a body of contamination which would be later identified as the J-2 North plume. MW-289 was drilled to 346 feet (ft) below ground surface (bgs). Perchlorate, hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) were detected in the profile samples. Three well screens were installed at this location. MW-289M1 (–135 to –145 ft mean sea level [msl]; 305 to 315 ft bgs) was installed approximately 31 ft above bedrock and just above a hydrostratigraphic unit of low hydraulic conductivity. MW-289M2 (7 to –3 ft msl; 162 to

172 ft bgs) was installed to intersect the maximum perchlorate and RDX detections observed in the profile samples. MW-289S (65 to 55 ft msl; 105 to 115 ft bgs) was installed to intersect the top of the groundwater column and provide a water table monitoring point.

J2P-18 (MW-292)

Location J2P-18, designated MW-292 upon commencement of drilling (September 2003), was installed downgradient of Disposal Area 2 and along a forward particle track from MW-130 and MW-234, as proposed in the workplan. MW-292 was located in a body of contamination which would be later identified as the J-2 North plume. MW-292 was drilled to 330 ft bgs. Perchlorate and explosives, including RDX and HMX, were detected in the profile samples. Two well screens were installed at this location. MW-292M1 (–119 to –129 ft msl; 282 to 292 ft bgs) was installed approximately 34 ft above bedrock and just above a hydrostratigraphic unit of low hydraulic conductivity to intersect the deep detection of perchlorate observed in profile samples. MW-292M2 (8 to –2 ft msl; 155 to 165 ft bgs) was installed to intersect the highest perchlorate detection within the upper groundwater column and to coincide with the elevation of the maximum perchlorate detection from cross-gradient location MW-289.

J2P-29 (MW-293)

Location J2P-29, designated MW-293 upon commencement of drilling (October 2003), was installed downgradient of MW-289 (J-2 North plume). MW-293 was drilled to 344 ft bgs. Perchlorate, RDX, and 2,6-dinitrotoluene (2,6-DNT) were detected in the profile samples. Three well screens were installed at this location. MW-293M1 (–123 to –133 ft msl; 296 to 306 ft bgs) was installed just above a hydrostratigraphic unit of low hydraulic conductivity to intersect the deep detection of perchlorate and explosives. MW-293M2 (–23 to –33 ft msl; 196 to 206 ft bgs) was installed to intersect the co-located maximum perchlorate and RDX detection in the profile samples. MW-293S (64 to 54 ft msl; 110 to 120 ft bgs) was installed to intersect the detection of perchlorate observed at the water table.

J2P-30 (MW-296)

Location J2P-30, designated MW-296 upon commencement of drilling (November 2003), was installed downgradient of MW-289 and MW-293 (near the boundary of the J-2 North plume). MW-296 was drilled to 346 ft bgs. No perchlorate or explosives were detected in the profile samples. At the time of profiling, the downgradient extent and depth of the J-2 North plume in the vicinity of MW-296 was unknown. Two well screens were installed at this location following receipt of the results of profiling at cross-gradient location MW-313 a number of months later (February 2004). MW-296M1 (–69 to –79 ft msl; 255 to 265 ft bgs) was installed at the model-predicted elevation where perchlorate detected upgradient along Wood Road is predicted to occur in the future. MW-296M2 (–29 to –39 ft msl; 215 to 225 ft bgs) was installed at the same elevation where the highest perchlorate detection was observed in cross-gradient location MW-313.

J2P-31 (MW-300)

Location J2P-31, designated MW-300 upon commencement of drilling (November 2003), was installed downgradient of MW-289 and east of MW-293 to define the lateral extent of the core of the plume (later known as the J-2 North plume) along Wood Road. MW-300 was drilled to 340 ft bgs. Perchlorate and RDX were detected in the profile samples. Three well screens were installed at this location. MW-300M1 (–122 to –132 ft msl; 293 to 303 ft bgs) was installed at the same elevation of deep perchlorate detection observed at MW-293 to the west. MW-300M2 (–26 to –36 ft msl; 197 to 207 ft bgs) was installed to intersect the location of the maximum perchlorate detection in the profile samples. MW-300M3 (36 to 26 ft msl; 135 to 145 ft bgs) was installed to intersect the shallowest of the RDX detections, providing an upper bound to the RDX contamination.

J2P-32 (MW-302)

Location J2P-32, designated MW-302 upon commencement of drilling (December 2003), was installed downgradient of MW-289 and west of MW-293 to define the lateral extent of the core of the J-2 North plume along Wood Road. MW-302 was drilled to 339 ft bgs. Perchlorate and RDX were detected in the profile samples. Two well screens were

installed at this location. MW-302M1 (–123 to –133 ft msl; 300 to 310 ft bgs) was installed at the same elevation of deep perchlorate detection at MW-293 cross-gradient to the east. MW-302M2 (–17 to –27 ft msl; 194 to 204 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples.

J2P-33 (MW-305)

Location J2P-33, designated MW-305 upon commencement of drilling (December 2003), was installed downgradient of MW-289 and east of MW-300 to define the lateral extent of the J-2 North plume along Wood Road. MW-305 was drilled to 338 ft bgs. Perchlorate and RDX were detected in the profile samples. One well screen was installed at this location. MW-305M1 (–25 to –35 ft msl; 203 to 213 ft bgs) was installed to intersect both the highest perchlorate detection at the bottom of the 10 ft screen and the second highest perchlorate detection at the top of the screen.

J2P-28 (MW-307)

Location J2P-28, designated MW-307 upon commencement of drilling (January 2004), was installed within the source area (later identified as the upgradient area of the J-2 East plume) between MW-120 and MW-228, as proposed in the workplan. MW-307 was drilled to 331 ft bgs. Perchlorate, RDX, 2-nitrotoluene (2-NT), and volatile organic compounds (VOCs) (acetone, 2-butanone, toluene, chloroform, chloromethane) were detected in the profile samples. Three well screens were installed at this location. MW-307M1 (–123 to –133 ft msl; 296 to 306 ft bgs) was installed approximately 25 ft above bedrock to intersect the deep perchlorate and explosives detections. MW-307M2 (–59 to –69 ft msl; 232 to 242 ft bgs) was installed to intersect two perchlorate detections at the top and bottom of the screen. MW-307M3 (47 to 37 ft msl; 126 to 136 ft bgs) was installed to intersect the highest perchlorate detection in the profile samples, as well as the uppermost RDX detection.

J2P-22 (MW-310)

Location J2P-22, designated MW-310 upon commencement of drilling (February 2004), was installed based on reverse particle tracks from MW-215 (J-2 East plume). MW-310

was drilled to 320 ft bgs. Perchlorate, RDX, HMX, and nitrobenzene were detected in the profile samples. One well screen was installed at this location (MW-310M1 –19 to –29 ft msl; 171 to 181 ft bgs) to intersect the maximum perchlorate detection and collocated RDX and HMX detections.

J2P-34 (MW-313)

Location J2P-34, designated MW-313 upon commencement of drilling (February 2004), was installed downgradient of MW-293 and MW-300 to determine the downgradient extent of contamination (J-2 North plume). MW-313 was drilled to 337 ft bgs. Perchlorate and RDX were detected in the profile samples. Three well screens were installed at this location. MW-313M1 (–69 to –79 ft msl; 255 to 265 ft bgs) was installed at the model-predicted depth where upgradient contamination is predicted to occur in the future. MW-313M2 (–29 to –39 ft msl; 216 to 226 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples. MW-313M3 (–9 to –19 ft msl; 195 to 205 ft bgs) was installed to intersect the lone RDX detection in the profile samples.

J2P-35 (MW-318)

Location J2P-35, designated MW-318 upon commencement of drilling (February 2004), was installed downgradient of MW-300 and MW-305 to determine the eastern boundary of the J-2 North plume at Jefferson Road. MW-318 was drilled to 338 ft bgs. RDX, 2,6-DNT, and 4-nitrotoluene were detected in the profile samples. Three well screens were installed at this location following receipt of profiling results from MW-322. MW-318M1 (–120 to –130 ft msl; 306 to 316 ft bgs) was installed to intersect the deep explosives detection and to coincide with a forward particle track from MW-322 where perchlorate was detected. MW-318M2 (–20 to –30 ft msl; 206 to 216 ft bgs) was installed to intersect the RDX detection. A water table well, MW-318S (65 to 55 ft msl; 121 to 131 ft bgs) was installed to collect head data at the water table.

J2P-21 (MW-319)

Location J2P-21, designated MW-319 upon commencement of drilling (February 2004), was installed downgradient of MW-158, as proposed in the workplan in an area later identified as the J-2 East plume. MW-319 was drilled to 324 ft bgs. Perchlorate and RDX were detected in the profile samples. Three well screens were installed at this location. MW-319M1 (–40 to –50 ft msl; 200 to 210 ft bgs) was installed to intersect the maximum perchlorate detections in the profile samples. MW-319M2 (–5 to –15 ft msl; 165 to 175 ft bgs) was installed to intersect the next-highest perchlorate detection in this profile. A water table well, MW-319S (68 to 58 ft msl; 93 to 103 ft bgs) was installed to collect head data at the water table.

J2P-24 (MW-321)

Location J2P-24, designated MW-321 upon commencement of drilling (March 2004), was installed in the J-2 East plume on an updated forward particle track from MW-228, roughly 1500 ft west of the location proposed in the workplan. MW-321 was drilled to 312 ft bgs. Perchlorate, RDX, HMX, and VOCs were detected in the profile samples. Two well screens were installed at this location. MW-321M1 (–1 to –11 ft msl; 175 to 185 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples. MW-321M2 (18 to 8 ft msl; 156 to 166 ft bgs) was installed to intersect the maximum RDX and HMX detections in the profile samples.

J2P-36 (MW-322)

Location J2P-36, designated MW-322 upon commencement of drilling (March 2004), was installed downgradient of MW-292 and east of MW-305 as part of the Wood Road fence to determine the eastern extent of the J-2 North plume along Wood Road. MW-322 was drilled to 336 ft bgs. Perchlorate and RDX were detected in the profile samples. Two well screens were installed at this location. MW-322M1 (–63 to –73 ft msl; 246 to 256 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples and bridge the RDX detects seen in the profile samples. A water table well, MW-322S (64 to 54 ft msl; 119 to 129 ft bgs) was installed to collect head data at the water table.

J2P-23 (MW-324)

Location J2P-23, designated MW-324 upon commencement of drilling (March 2004), was installed on a forward particle track from MW-215 to determine the downgradient extent of the J-2 East plume. MW-324 was drilled to 349 ft bgs. Perchlorate, RDX, HMX, and 2,6-DNT were detected in the profile samples. Two well screens were installed at this location. MW-324M1 (–61 to –71 ft msl; 235 to 245 ft bgs) was installed to intersect the deepest detections of perchlorate and RDX. MW-324M2 (–31 to –41 ft msl; 205 to 215 ft bgs) was installed to intersect the maximum detections of perchlorate, RDX, and HMX in the profile samples.

J2P-38 (MW-327)

Location J2P-38, designated MW-327 upon commencement of drilling (April 2004), was installed on a forward track from MW-313 to determine the downgradient extent of the J-2 North plume. MW-327 was drilled to 338 ft bgs. Perchlorate, RDX and other explosives were detected in the profile samples. Three well screens were installed at this location. MW-327M1 (–121 to –131 ft msl; 296 to 306 ft bgs) was installed to intersect the deep detections of perchlorate and RDX. MW-327M2 (–90 to –100 ft msl; 265 to 275 ft bgs) was installed to intersect other explosives detections. MW-327M3 (–45 to –55 ft msl; 220 to 230 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples.

J2P-37 (MW-330)

Location J2P-37, designated MW-330 upon commencement of drilling (April 2004), was installed on a forward track from MW-313 to determine the downgradient extent of the J-2 North plume. MW-330 was drilled to 334 ft bgs. 2,6-DNT was detected in the profile samples. Three well screens were installed at this location. MW-330M1 (–125 to –135 ft msl; 313 to 323 ft bgs) was installed where modeling predicts deep perchlorate detected in the upgradient MW-327 profile samples may occur in the future. MW-330M2 (–50 to –60 ft msl; 238 to 248 ft bgs) was installed where modeling predicts mid-depth perchlorate detected in the upgradient MW-327 profile samples may occur in the future.

MW-330M3 (–33 to –23 ft msl; 155 to 165 ft bgs) was installed to intersect the 2,6-DNT detection.

J2P-40 (MW-331)

Location J2P-40, designated MW-331 upon commencement of drilling (May 2004), was installed downgradient of MW-289 west of MW-302 to define the western boundary of the J-2 North plume along Wood Road. MW-331 was drilled to 345 ft bgs. Perchlorate was detected in the profile samples. Two well screens were installed at this location. MW-331M1 (–55 to –65 ft msl; 235 to 245 ft bgs) was installed to intersect the highest perchlorate detection in the profile samples (0.45J micrograms per liter [µg/L]). This sample was a field duplicate and the associated native sample was non-detect. MW-331M2 (–15 to –25 ft msl; 195 to 205 ft bgs) was installed at the same elevation of the aquifer where the highest perchlorate concentrations were found in cross-gradient wells MW-302 and MW-293.

J2P-27 (MW-334)

Location J2P-27, designated MW-334 upon commencement of drilling (May 2004), was installed downgradient of MW-215 and MW-310 on a forward particle track from MW-310 to determine the downgradient extent of the J-2 East plume. MW-334 was drilled to 326 ft bgs. Perchlorate and 2-NT were detected in the profile samples. Two well screens were installed at this location. MW-334M1 (–113 to –123 ft msl; 285 to 295 ft bgs) was installed to intersect the perchlorate detection in the profile samples. MW-334M2 (7 to –3 ft msl; 165 to 175 ft bgs) was installed to intersect the 2-NT detection in the profile samples as well as correspond to the elevation of contaminants detected in upgradient wells MW-310 and MW-215.

J2P-26 (MW-335)

Location J2P-26, designated MW-335 upon commencement of drilling (June 2004), was installed downgradient of MW-321 on Wood Road between MW-322 and MW-324 (MW-381, which is situated east of MW-322, had not yet been drilled) to further define the lateral extent of contamination in the J-2 East plume. MW-335 was drilled to 347 ft bgs.

Perchlorate and 2,6-DNT were detected in the profile samples. Three well screens were installed at this location. MW-335M1 (–78 to –88 ft msl; 255 to 265 ft bgs) was installed to intersect the deep perchlorate detection from the profile samples. MW-335M2 (–38 to –48 ft msl; 215 to 225 ft bgs) was installed to intersect the upper perchlorate detection from the profile samples. MW-335M3 (58 to 48 ft msl; 120 to 130 ft bgs) was installed to intersect the 2,6-DNT detections.

J2P-25 (MW-336)

Location J2P-25, designated MW-336 upon commencement of drilling (June 2004), was installed south of MW-319, downgradient of J-2 Range and a flow divide predicted by the groundwater model (south of and cross-gradient to the southern edge of the J-2 East plume). MW-336 was drilled to 323 ft bgs. 2-NT, 2,4-diamino-6-nitrotoluene (2,4-DANT), and VOCs were detected in the profile samples. Two well screens were installed at this location. MW-336D (–151 to –161 ft msl; 310 to 320 ft bgs) was installed approximately 1 ft above bedrock to intersect deep detections of explosives and VOCs in the profile samples. MW-336M1 (34 to 24 ft msl; 125 to 135 ft bgs) was installed to correspond to the elevation where perchlorate was previously detected in MW-158.

J2P-39 (MW-337)

Location J2P-39, designated MW-337 upon commencement of drilling (June 2004), was installed southwest of MW-327, to determine the western extent of the leading edge of the J-2 North plume. MW-337 was drilled to 322 ft bgs. No perchlorate or explosives were detected in the profile samples. Two well screens were installed at this location. MW-337D (–121 to –131 ft msl; 310 to 320 ft bgs) was installed approximately 2 ft above bedrock to correspond with the elevation of deep perchlorate detection at MW-327. MW-337M1 (–54 to –64 ft msl; 244 to 254 ft bgs) was installed at the approximate elevation where a forward particle track from the maximum perchlorate detection at MW-313 could potentially occur in the future. The M1 screen elevation is also at a similar elevation as the maximum detection of perchlorate in the profile samples of MW-327.

J2P-19 (MW-339)

Location J2P-19, designated MW-339 upon commencement of drilling (June 2004), was installed on a downgradient (forward) particle track from MW-307 in the J-2 East Plume. MW-339 was drilled to 328 ft bgs. Perchlorate, RDX, and 2-NT were detected in the profile samples. Two well screens were installed at this location. MW-339M1 (–64 to –74 ft msl; 233 to 243 ft bgs) was installed to intersect the maximum and deepest perchlorate detections in the profile samples. MW-339M2 (–44 to –54 ft msl; 213 to 223 ft bgs) was installed to intersect the uppermost RDX detection.

J2P-42 (MW-340)

Location J2P-42, designated MW-340 upon commencement of drilling (June 2004), was installed downgradient of MW-327, MW-337 and the leading edge of the J-2 North plume. MW-340 was drilled to 348 ft bgs. 2,6-DNT, 2-amino-4,6-dinitrotoluene (2A-DNT), and 2,4-DANT were detected in the profile samples. Three well screens were installed at this location. MW-340D (–131 to –141 ft msl; 330 to 340 ft bgs) was installed approximately 8 ft above bedrock at the elevation where deep perchlorate detected at MW-327 is projected by modeling to occur in the future. MW-340M1 (–57 to –67 ft msl; 256 to 266 ft bgs) was installed where mid-depth perchlorate detected at MW-327 is predicted by modeling to occur in the future. MW-340M2 (–16 to –26 ft msl; 215 to 225 ft bgs) was installed to coincide with the detection of 2A-DNT.

J2P-41 (MW-342)

Location J2P-41, designated MW-342 upon commencement of drilling (July 2004), was installed to determine the southern extent of perchlorate detected at MW-319 in the J-2 East Plume. MW-342 was drilled to 317 ft bgs. 2-NT and VOCs were detected in the profile samples. Three well screens were installed at this location. MW-342M1 (–44 to –54 ft msl; 194 to 204 ft bgs) was installed to correspond with maximum perchlorate detections at cross-gradient location MW-319. MW-342M2 (–14 to –24 ft msl; 164 to 174 ft bgs) was installed to correspond to cross-gradient perchlorate detections at MW-319. MW-342S (64 to 54 ft msl; 86 to 96 ft bgs) was installed downgradient of water table detections at MW-158S.

J2P-43 (MW-345)

Location J2P-43, designated MW-345 upon commencement of drilling (August 2004), was installed downgradient of the leading edge of the J-2 North plume and east of MW-330 and MW-340. MW-345 was drilled to 357 ft bgs. No perchlorate or explosives were detected in the profile samples. Two well screens were installed at this location. MW-345M1 (–126 to –136 ft msl; 312 to 322 ft bgs) was installed at the same elevation as cross-gradient screens in MW-330 and MW-340 to coincide with the projected path of low level detects in profile samples from upgradient location MW-327. Similarly, MW-345M2 (–51 to –61 ft msl; 237 to 247 ft bgs) was installed at the same elevation as corresponding screens in MW-330 and MW-340 and within the projected path of detections from the profile samples collected at MW-327.

J2P-44 (MW-348)

Location J2P-44, designated MW-348 upon commencement of drilling (August 2004), was installed downgradient of MW-293 and MW-300 in the center of the J-2 North plume. MW-348 was drilled to 350 ft bgs. Perchlorate was detected in the profile samples, explosives were not detected in any of the profile samples. Two well screens were installed at this location. MW-348M1 (–108 to –118 ft msl; 289 to 299 ft bgs) was installed just above a hydrostratigraphic unit of low hydraulic conductivity where the projected path of deep perchlorate detections from upgradient well MW-289 are modeled to occur. MW-348M2 (–26 to –36 ft msl; 207 to 217 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples. A piezometer, PZ-348 (67 to 57 ft msl, 114 to 124 ft bgs), was installed at this location to collect head data at the water table.

J2P-46 (MW-351)

Location J2P-46, designated MW-351 upon commencement of drilling (September 2004), was installed downgradient of MW-335 and MW-339 to determine the downgradient extent of the J-2 East plume. MW-351 was drilled to 331 ft bgs. RDX and 2,6-DNT were detected in the profile samples. Perchlorate was not detected in any of the profile samples. Two well screens were installed at this location. MW-351M1 (–119

to –129 ft msl; 279 to 289 ft bgs) was installed to intersect the model-predicted path of contamination from upgradient wells MW-335 and MW-339. MW-351M2 (–74 to –84 ft msl; 234 to 244 ft bgs) was installed to intersect the maximum RDX detection in the profile samples.

J2P-45 (MW-354)

Location J2P-45, designated MW-354 upon commencement of drilling (September 2004), was installed on a forward particle track from MW-324 to determine the downgradient extent of the J-2 East plume. MW-354 was drilled to 340 ft bgs. No perchlorate or explosives were detected in the profile samples. Two well screens were installed at this location. MW-354M1 (–100 to –110 ft msl; 275 to 285 ft bgs) was installed at the model-predicted depth where future contamination from upgradient wells MW-215, MW-310 and MW-324 is projected to occur, and is at a similar elevation to detections from cross-gradient well MW-334. MW-354M2 (–60 to –70 ft msl; 235 to 245 ft bgs) was installed to correspond with the elevation of profile detections in cross-gradient well MW-351.

J2P-47 (MW-355)

Location J2P-47, designated MW-355 upon commencement of drilling (October 2004), was installed southeast of the J-2 East plume, downgradient of MW-319 on an east-southeast trending forward particle track from MW-319 and upgradient of a perchlorate detection from a residential well. MW-355 was drilled to 335 ft bgs. No perchlorate or explosives were detected in the profile samples. Two well screens were installed at this location. MW-355M1 (–62 to –72 ft msl; 220 to 230 ft bgs) was installed at the model-predicted depth where potential contamination from upgradient location MW-319M2 may occur. MW-355S (65 to 55 ft msl; 93 to 103 ft bgs) was installed at the water table to correspond with the residential perchlorate detection, which was at or near the water table.

J2P-48 (MW-357)

Location J2P-48, designated MW-357 upon commencement of drilling (October 2004), was installed to determine the downgradient extent of the J-2 East plume. MW-357 was drilled to 332 ft bgs. 3-Nitrotoluene (3-NT) was detected in one profile sample. Perchlorate was not detected in any of the profile samples. Two well screens were installed at this location. MW-357M1 (–107 to –117 ft msl; 275 to 285 ft bgs) was installed to correspond with the elevation of cross-gradient well MW-334M1. MW-357M2 (–17 to –27 ft msl; 184 to 194 ft bgs) was installed to intersect the only explosives detection in the profile samples.

J2P-50 (MW-358)

Location J2P-50, designated MW-358 upon commencement of drilling (November 2004), was installed to determine the downgradient extent of the J-2 East plume. MW-358 was drilled to 349 ft bgs. VOCs (tetrachloroethene [PCE], chloromethane, chloroform) were detected in the profile samples. Perchlorate and explosives were not detected in any of the profile samples. Two well screens were installed at this location. MW-358M1 (–68 to –78 ft msl; 230 to 240 ft bgs) was installed at the projected depth of particle tracks from MW-319M2 and intersects the deepest PCE detection in the profile samples. MW-358M2 (–16 to –26 ft msl; 178 to 188 ft bgs) was installed to intersect the maximum PCE and chloromethane detections in the profile samples.

J2P-49 (MW-362)

Location J2P-49, designated MW-362 upon commencement of drilling (December 2004), was installed to determine the downgradient extent of the J-2 East plume. MW-362 was drilled to 329 ft bgs. VOCs (methyl tert-butyl ether [MTBE], chloroform, dibromochloromethane) were detected in the profile samples. Perchlorate and explosives were not detected in any of the samples. Two well screens were installed at this location. MW-362M1 (–70 to –80 ft msl; 229 to 239 ft bgs) was installed at the projected elevation of forward particle tracks from MW-319M2. MW-362M2 (–11 to –21 ft msl; 170 to 180 ft bgs) was installed at the same elevation as MW-358M2 to the north.

J2P-52 (MW-365)

Location J2P-52, designated MW-365 upon commencement of drilling (January 2005), was installed downgradient of MW-310 and east of MW-324 to define the downgradient and eastern extent of the J-2 East plume, as well as characterize contamination upgradient of MW-334. MW-365 was drilled to 316 ft bgs. RDX, other explosives, and VOCs were detected in the profile samples. Three well screens were installed at this location. MW-365M1 (–119 to –129 ft msl; 276-286 ft bgs) was installed to intersect the deep explosives detection. MW-365M2 (–49 to –59 ft msl; 206 to 216 ft bgs) was installed at an elevation in-between the two well screens at cross-gradient location MW-324. MW-365S (63 to 53 ft msl; 93 to 103 ft bgs) was installed to intersect the RDX detection near the water table.

J2P-51 (MW-366)

Location J2P-51, designated MW-366 upon commencement of drilling (January 2005), was installed downgradient of the central portion of the J-2 Range and west of MW-335 to define the western edge of the J-2 East plume. MW-366 was drilled to 311 ft bgs. Perchlorate, RDX and VOCs (chloroform) were detected in the profile samples. Three well screens were installed at this location. MW-366M1 (–62 to –72 ft msl; 215-225 ft bgs) was installed to intersect a deep perchlorate detection separate and below the main plume (as defined by a series of perchlorate detects). MW-366M2 (–22 to –32 ft msl; 175 to 185 ft bgs) was installed to intersect both the middle of the perchlorate contamination and the sole RDX detection. MW-366M3 (8 to –2 ft msl; 145 to 155 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples.

J2P-54 (MW-367)

Location J2P-54, designated MW-367 upon commencement of drilling (March 2005), was installed downgradient of the J-2 East Range and east of MW-319 to determine the extent of the J-2 East plume. MW-367 was drilled to 325 ft bgs. RDX and VOCs (MTBE, toluene, chloroform) were detected in the profile samples. Perchlorate was not detected in any of the profile samples. Two well screens were installed at this location. MW-367M1 (–51 to –61 ft msl; 215-225 ft bgs) was installed at an elevation where

forward particle tracks from MW-319M2 are projected to occur. A second well, MW-367M2 (–13 to –23 ft msl; 167 to 177 ft bgs) was installed to intersect an RDX detection that was later determined to be non-detect.

J2P-53 (MW-368)

Location J2P-53, designated MW-368 upon commencement of drilling (April 2005), was installed downgradient of the J-2 Range and south of MW-335 to define the western edge of the J-2 East plume. MW-368 was drilled to 351 ft bgs. Perchlorate, RDX, HMX, and VOCs were detected in the profile samples. Three well screens were installed at this location. MW-368M1 (–66 to –76 ft msl; 237-247 ft bgs) was installed to intersect the second highest perchlorate detection in the profile samples. MW-368M2 (–31 to –41 ft msl; 203 to 213 ft bgs) was installed to intersect the maximum perchlorate and RDX detections in the profile samples. MW-368M3 (8 to –2 ft msl; 145 to 155 ft bgs) was installed at an elevation corresponding to the highest perchlorate detections at cross-gradient location MW-366.

J2P-55 (MW-372)

Location J2P-55, designated MW-372 upon commencement of drilling (May 2005), was installed downgradient of MW-334 to define the downgradient extent of the deep perchlorate detections observed at MW-334M1, and the downgradient extent of the J-2 East plume. MW-372 was drilled to 315 ft bgs. Explosives and VOCs (including benzene, MTBE, toluene, chloroform) were detected in the profile samples. Two well screens were installed at this location. MW-372D (–128 to –138 ft msl; 301-311 ft bgs) was installed approximately 1 ft above bedrock at an elevation determined from forward particle tracks from MW-310M1, MW-324M1 and MW-334M1. MW-372M1 (–101 to –111 ft msl; 273 to 283 ft bgs) was installed at an elevation determined by a forward particle track from MW-324M2.

J2E-DP1 (DP-371)

Location J2-DP1, designated DP-371 upon commencement of drilling (May 2005), was installed within the J-2 East plume using a direct push rig between and cross-gradient to

MW-310 and MW-319 as a means of confirming the detections at MW-319. DP-371 was advanced to refusal at 212 ft bgs. Perchlorate and explosives were detected in the profile samples. The drill rods and screen used during the profiling were left in place as microwell DP-371 (–46 to –51 ft msl; 207 to 212 ft bgs).

J2E-DP2 (DP-377)

Location J2-DP2, designated DP-377 upon commencement of drilling (May 2005), was installed using a direct push rig downgradient of MW-336, south of the J-2 East plume, and a few hundred ft southeast of the J-2 Range, near the eastern boundary of the Massachusetts Military Reservation (MMR), to confirm that contaminants are not migrating beyond the MMR boundary in this area. DP-377 was advanced to refusal at 190 ft bgs. No perchlorate or explosives were detected in the profile samples. The drill rods and screen used during the profiling were left in place as microwell DP-377 (–55 to –60 ft msl; 185 to 190 ft bgs).

J2P-56 (MW-381)

Location J2P-56, designated MW-381 upon commencement of drilling (June 2005), was installed downgradient of the J-2 Range on a forward particle track from MW-366 to define the downgradient extent of contamination. The well is located between the main lobes of the J-2 North and J-2 East plumes. MW-381 was drilled to 352 ft bgs. Perchlorate was detected in one profile sample. Two well screens were installed at this location. MW-381M1 (–55 to –65 ft msl; 233-243 ft bgs) was installed at an elevation determined from forward particle tracks of perchlorate and RDX detections in upgradient well MW-366 and to coincide with the MW-322M1 screen to the west. MW-381M2 (–18 to –28 ft msl; 196 to 206 ft bgs) was installed to intersect the perchlorate detection from the profile samples and to coincide with a forward particle track from the maximum perchlorate detection at MW-366.

J2P-57 (MW-388)

Location J2P-57, designated MW-388 upon commencement of drilling (July 2005), was installed downgradient of the J-2 Range and between MW-307 and MW-366 to further

characterize the area between the J-2 North and J-2 East plumes. MW-388 was drilled to 294 ft bgs. Perchlorate was detected in the profile samples. Explosives were not detected in any of the profile samples. Three well screens were installed at this location. MW-388M1 (–34 to –44 ft msl; 175-185 ft bgs) was installed to intersect a perchlorate detection in the profile samples and to coincide with a reverse particle track from MW-366M1. MW-388M2 (–4 to –14 ft msl; 145 to 155 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples and to coincide with a reverse particle track from MW-366M2. MW-388M3 (55 to 45 ft msl; 86 to 96 ft bgs) was installed to coincide with a reverse particle track from MW-366M3.

J2P-60 (MW-393)

Location J2P-60, designated MW-393 upon commencement of drilling (August 2005), was installed on a forward particle track from MW-368 and between MW-351 and MW-354 to characterize the center downgradient of the J-2 East plume. MW-393 was drilled to 325 ft bgs. Perchlorate, RDX, other explosives and VOCs (toluene, MTBE, chloroform) were detected in the profile samples. Three well screens were installed at this location. MW-393D (–157 to –167 ft msl; 314-324 ft bgs) was installed approximately 1 ft above bedrock to intersect a perchlorate detection located just above bedrock. MW-393M1 (–112 to –122 ft msl; 268 to 278 ft bgs) was installed to intersect the maximum perchlorate detection in the profile samples and to center the screen within the general perchlorate contamination in this location. The screen elevation also closely coincides with cross-gradient well screens MW-334M1, MW-351M1 and MW-354M1. MW-393M2 (–62 to –72 ft msl; 218 to 228 ft bgs) to intersect the top of the perchlorate detection and the maximum RDX detection in the profile samples. The screen elevation also coincides with cross-gradient well screen MW-351M2.

J2P-58 (MW-399)

Location J2P-58, designated MW-399 upon commencement of drilling (September 2005), was installed based on a forward particle track from MW-351 and a reverse particle track from MW-18 to define the western extent leading edge of the J-2 East plume. MW-399 was drilled to 324 ft bgs. RDX, other explosives and VOCs (MTBE, chloroform) were detected in the profile samples. Perchlorate was not detected in any of

the profile samples. Two well screens were installed at this location. MW-399M1 (–74 to –84 ft msl; 238-248 ft bgs) was installed to intersect the maximum RDX detection in the profile samples. MW-399M2 (40 to 30 ft msl; 125 to 135 ft bgs) was installed to intersect a detection of 4-amino-2,6-DNT.

J2P-59 (MW-436)

Location J2P-59, designated MW-436 upon commencement of drilling (March 2006), was installed on a forward particle track from MW-393 and upgradient of MW-399 to define the center of leading edge of the J-2 East plume. MW-436 was drilled to 346 ft bgs. VOCs (toluene, chloroform) were detected in the profile samples. Perchlorate and explosives were not detected in any of the profile samples. Two well screens were installed at this location. MW-436M1 (–119 to –129 ft msl; 296-306 ft bgs) was installed based on a forward particle track to intersect the projected main zone of contamination detected upgradient at MW-393M1. MW-436M2 (–59 to –69 ft msl; 236 to 246 ft bgs) was installed based on a forward particle track where the shallowest upgradient contamination is projected to occur in the future.

LOC ID: MW-289

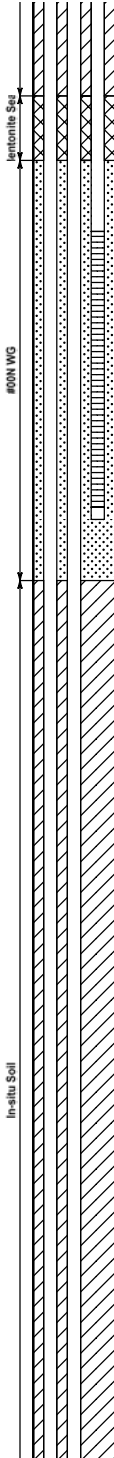
Project Name: J-2 RANGE				Location: Chadwick Road, J2 Range			
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92				Easting: M1: 373894.67, M2: 373894.67, S: 373894.67			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 169.00, M2: 169.00, S: 169.00 @ Top PVC				
Drilling Equipment: Dual Air Rotary #87-1			Well Depth ft (BGS): M1: 317.60, M2: 172.34, S: 115.14				
Drilling Method: Air-Rotary			BH Depth/Diam: 346.00 ft (BGS), 8.00 in.		First Water ft (BGS): 103.05		
Sampling Method: Stainless Steel Bailer			Start/End Date: 08/12/03 - 08/27/03		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 98.42		
Logged by: D. Melcher		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 02/03/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					CPS Conductivity						
					2	6	10				
0											170
5				0				SPSM	SAND: 2.5Y 4/4 olive brown, fine grained, little medium, trace coarse, little fine subrounded to rounded gravel, trace coarse rounded gravel, trace to little silt, trace organics, loose, dry		165
10				0				SP	SAND: 2.5Y 5/4 light olive brown, some medium, little coarse, little fine, little fine subangular to well rounded gravel, trace coarse subrounded gravel, trace silt, loose, dry		160
15				0					SAND: 2.5Y 5/4 light olive brown, some coarse, some medium, little fine, little fine subangular to rounded gravel, trace coarse subangular to rounded gravel, trace silt, loose, dry		155
20				0					SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine, trace coarse, trace fine rounded gravel, trace silt, loose, dry		150
25											145
30											140
35				0					SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse, little fine, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, dry		135
40				0					SAND: 2.5Y 5/4 light olive brown, fine grained, some medium, trace coarse, trace fine rounded gravel, trace silt, loose, dry		130
									SAND: 2.5Y 6/6 olive yellow, medium grained, some fine, trace to little coarse, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, dry		

LOC ID: MW-289

Project Name: J-2 RANGE					Location: Chadwick Road, J2 Range				
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92					Easting: M1: 373894.67, M2: 373894.67, S: 373894.67				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
45									125
50									120
55				0			SAND: 2.5Y 6/6 olive yellow, medium grained, some fine, trace coarse, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry		115
60				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse, trace to little fine subrounded to rounded gravel, trace coarse subrounded gravel, trace silt, loose, dry		110
65									105
70									100
75				0			SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse, little fine, trace fine rounded gravel, trace silt, loose, dry		95
80							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine, little coarse, trace fine rounded gravel, trace silt, loose, dry		90
85							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse, trace fine rounded gravel, trace silt, loose, dry		85
90				0			SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse, little fine, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, dry		80
95							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry		75
							SAND: 2.5Y 6/6 olive yellow, medium grained, some		

LOC ID: MW-289

Project Name: J-2 RANGE							Location: Chadwick Road, J2 Range			
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92							Easting: M1: 373894.67, M2: 373894.67, S: 373894.67			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100				0			fine, trace coarse, trace fine rounded gravle, trace silt, loose, dry		70	
105							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse, little fine, trace to little fine subrounded to rounded gravel, trace coarse subrounded gravel, trace silt, loose, moist		65	
110				0			SAND: 2.5Y 5/6 light olive brown, fine grained, some medium, trace coarse, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		60	
115									55	
120				0			SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse, little fine, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		50	
125								45		
130				0			SAND: 2.5Y 6/6 olive yellow, medium grained, some fine, little coarse, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet	40		
135								35		
140				0			SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse, trace fine subrounded to rounded gravel, trace silt, loose, wet	30		
145								25		
								20		

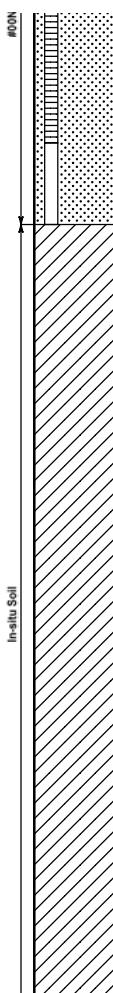
LOC ID: MW-289

Project Name: J-2 RANGE							Location: Chadwick Road, J2 Range			
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92							Easting: M1: 373894.67, M2: 373894.67, S: 373894.67			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150				0			SAND: 2.5Y 5/4 light olive brown, fine grained, little medium, trace coarse, trace fine rounded gravel, trace silt, loose, wet		15	
155									10	
160				0			SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium, trace coarse, trace fine rounded gravel, trace silt, loose, wet		5	
165									0	
170				0			SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium, trace coarse, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		-5	
175							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine, little coarse, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		-10	
180				0			SAND: 2.5Y 6/6 olive yellow, medium grained, little fine, trace to little coarse, trace coarse subrounded gravel, trace fine subrounded to tounded gravel, trace silt, loose, wet	-15		
185								-20		
190				0		SPSM	SAND: 2.5Y 5/4 light olive brown, fine grained, little medium, tracecoarse, trace fine rounded gravel, trace to little silt, loose, wet	-25		
195							SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little medium, trace coarse, trace to little silt, loose, wet	-30		
200				0			SAND: 5Y 5/4 olive, some fine, little coarse, little fine, little fine subrounded to rounded gravel, trace coarse subrounded to rounded gravel, trace to little silt, loose, wet			

[illegible]

Project Name: J-2 RANGE							Location: Chadwick Road, J2 Range		
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92							Easting: M1: 373894.67, M2: 373894.67, S: 373894.67		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
260				0		SM	SAND: 2.5Y 5/6 light olive brown, fine grained, little medium, trace coarse, little silt, loose, wet		-90
265									-95
270				0			SAND: 2.5Y 6/6 olive yellow, fine grained, little medium, little silt, loose, wet		-100
275									-105
280				0			SAND: 2.5Y 6/6 olive yellow, fine grained, trace medium, little silt, loose, wet		-110
285									-115
290				0			SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium, some silt, loose, wet		-120
295									-125
300				0		ML	SILT: 5Y 4/4 olive, trace fine sand, medium dense, dry		-130
305						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium, some silt, loose, wet		-135

LOC ID: MW-289

Project Name: J-2 RANGE							Location: Chadwick Road, J2 Range			
Northing: M1: 4618406.02, M2: 4618405.97, S: 4618405.92							Easting: M1: 373894.67, M2: 373894.67, S: 373894.67			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310				0				SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium, some silt, loose, wet		-145
315						CL		CLAY: 5Y 5/6 olive, trace fine sand, trace silt, dense, dry		-150
320				0		SCCL		SAND AND CLAY: 5Y 5/6 olive, fine grained sand, trace silt, medium dense, wet		-155
325								SAND AND CLAY: 5Y 5/6 olive, fine grained sand, trace silt, medium dense, wet		-160
330				0				SAND AND CLAY: 5Y 5/6 olive, fine grained sand, trace silt, medium dense, wet		-165
335								SAND: 2.5Y 5/6 light olive brown, some coarse, some medium, little fine, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet		-170
340				0		SP		SAND: 2.5Y 5/6 light olive brown, some coarse, some medium, little fine, little fine angular to rounded gravel, trace coarse subrounded gravel, little silt, loose, wet		-175
345						GM		GRANITE GRAVEL PROBABLE WEATHERED BEDROCK: 2.5Y 6/4 light yellowish brown, fine angular to subangular gravel, trace coarse angular to subangular gravel, little coarse sand, little medium sand, little fine sand, little silt, loose, wet		-180
350								Notes: 1. Well Depths MW-289M1: 317.60 ft (BGS) MW-289M2: 172.34 ft (BGS) MW-289S: 115.14 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-289M1: 10.00 ft MW-289M2: 10.00 ft MW-289S: 10.05 ft 4. Screen Intervals MW-289M1: 304.62 - 314.62 ft (BGS) MW-289M2: 162.02 - 172.02 ft (BGS) MW-289S: 104.64 - 114.69 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 169.18 ft (MSL)		-185
355										-190
360										

LOC ID: MW-292

Project Name: J-2 RANGE										Location: Off Chadwick Road, J2 Range																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Northing: M1: 4618353.52, M2: 4618353.57										Easting: M1: 373974.41, M2: 373974.41																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Drilling Contractor: D. L. Maher Co.										Elevation ft (MSL): M1: 163.08, M2: 163.08 @ Top PVC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Drilling Equipment: Dual Air Rotary #87-1										Well Depth ft (BGS): M1: 292.59, M2: 165.65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Drilling Method: Air-Rotary										BH Depth/Diam: 330.00 ft (BGS), 8.00 in.					First Water ft (BGS): 98.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Sampling Method: Stainless Steel Bailer										Start/End Date: 09/03/03 - 09/17/03					Well Diameter (in.): 2.50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Const. Materials SCH 80 PVC										Project Number: 35AY5301					Static Water ft (BTOC): 92.22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Logged by: D. Melcher					Reviewed by: Larry Pannell, PG					Completion: Flushmount										Date Measured: 02/01/06																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol										Well Construction Diagram	Elevation (ft msl)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					CPS	20	45														70																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
					Conductivity																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

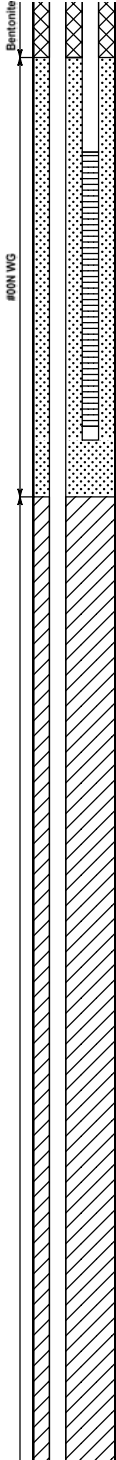
LOC ID: MW-292

Project Name: J-2 RANGE							Location: Off Chadwick Road, J2 Range			
Northing: M1: 4618353.52, M2: 4618353.57							Easting: M1: 373974.41, M2: 373974.41			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
45				0					120	
50				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace fine rounded gravel, trace silt, loose, dry		115	
55				0			SAND: 2.5Y 6/6 olive yellow, some medium sand, little coarse sand, little fine sand, little fine rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry		110	
60				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace fine rounded gravel, trace silt, loose, dry		105	
65				0			SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, dry		100	
70				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace to little coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, damp		95	
75				0					90	
80				0					85	
85				0					80	
90				0					75	
95				0					70	

LOC ID: MW-292

Project Name: J-2 RANGE							Location: Off Chadwick Road, J2 Range			
Northing: M1: 4618353.52, M2: 4618353.57							Easting: M1: 373974.41, M2: 373974.41			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100				0						65
105								SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, wet		60
110				0		SPSM		SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace fine subrounded to rounded gravel, loose, wet		55
115										50
120				0		SP		SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, wet		45
125										40
130				0				SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		35
135										30
140				0				SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		25
145										20
										15

LOC ID: MW-292

Project Name: J-2 RANGE							Location: Off Chadwick Road, J2 Range			
Northing: M1: 4618353.52, M2: 4618353.57							Easting: M1: 373974.41, M2: 373974.41			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150				0				SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, wet		10
155										5
160				0				SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, wet		0
165										-5
170				0				SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, loose, wet		-10
175									-15	
180				0				SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, trace silt, loose, wet	-20	
185									-25	
190				0		SM		SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, trace fine subangular to rounded gravel, loose, wet	-30	
195									-35	
200				0		SP		GRAVELLY SAND: 5Y 6/4 pale olive, some coarse sand, some medium sand, little fine sand, some fine subangular to rounded gravel, little coarse subrounded to rounded gravel, trace silt, loose, wet		

LOC ID: MW-292

Project Name: J-2 RANGE							Location: Off Chadwick Road, J2 Range			
Northing: M1: 4618353.52, M2: 4618353.57							Easting: M1: 373974.41, M2: 373974.41			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205										-40
210				0						-45
215										-50
220				0			SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, wet			-55
225							SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, little coarse sand, little fine subangular to rounded gravel, trace coarse subrounded gravel, trac silt, loose, wet			-60
230				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, wet			-65
235						SM	SAND: 2.5Y 6/6 olive yellow, fine grained, little coarse sand, little medium sand, trace fine subrounded to rounded gravel, trace silt, loose, wet			-70
240				0						-75
245										-80
250				0		SPSM	SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, little, silt, trace fine subrounded to rounded gravel, loose, wet			-85
255							SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace to little silt, trace fine subrounde to rounded gravel, loose, wet			-90

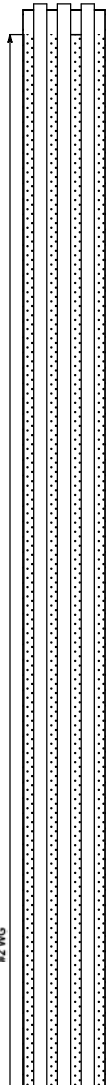
[illegible]

LOC ID: MW-292

Project Name: J-2 RANGE						Location: Off Chadwick Road, J2 Range			
Northing: M1: 4618353.52, M2: 4618353.57						Easting: M1: 373974.41, M2: 373974.41			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram Elevation (ft msl)
310				0		SCCL	CLAY AND SAND: 5Y 5/6 olive, some coarse sand, little medium sand, little fine sand, trace to little fine subangular to rounded gravel, trace silt, loose, wet		-150
315						SPGP	SAND AND GRAVEL: 2.5Y 5/6 light olive brown, some coarse sand, some medium sand, little fine sand, some fine subangular to rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet		-155
320									-160
325						BR	BEDROCK: light gray GRANITE BEDROCK predominantly in the form of angular to subangular fine gravel and coarse sand; trace 2.5Y light yellowish brown fine to medium grained sand present, indicating probable sand lenses		-165
330									-170
335							Notes: 1. Well Depths MW-292M1: 292.59 ft (BGS) MW-292M2: 165.65 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-292M1: 10.01 ft MW-292M2: 10.00 ft 4. Screen Intervals MW-292M1: 282.08 - 292.09 ft (BGS) MW-292M2: 155.15 - 165.15 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 163.11 ft (MSL)		-175
340									-180
345									

Printed on 11/01/06

LOC ID: MW-293

Project Name: J-2 RANGE										Location: Wood Road Location 1									
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55										Easting: M1: 373993.97, M2: 373993.97, S: 373993.97									
Drilling Contractor: D. L. Maher Co.					Elevation ft (MSL): M1: 174.02, M2: 174.02, S: 174.02 @ Top PVC														
Drilling Equipment: Dual Air Rotary #87-1					Well Depth ft (BGS): M1: 306.94, M2: 206.92, S: 120.45														
Drilling Method: Air-Rotary					BH Depth/Diam: 343.46 ft (BGS), 8.00 in.					First Water ft (BGS): 107									
Sampling Method: Stainless Steel Bailer					Start/End Date: 10/20/03 - 10/23/04					Well Diameter (in.): 2.50									
Const. Materials SCH 80 PVC					Project Number: 35AY5301					Static Water ft (BTOC): 104.21									
Logged by: D. Melcher			Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 01/18/06										
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10			USCS Class	Lithologic Description and Associated Lithographic Symbol					Well Construction Diagram	Elevation (ft msl)				
0				0				ML	SANDY SILT: 2.5Y 4/4 olive brown, some fine sand, little medium sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace organics, loose, dry						175				
5								SP	GRAVELLY SAND: 2.5Y 6/8 olive yellow, some medium sand, little coarse sand, little fine sand, little coarse subangular to subrounded gravel, little fine subangular to rounded gravel, trace silt, loose, dry						170				
10				0					SAND: 2.5Y 6/6 olive yellow, some medium sand, little coarse sand, little fine sand, little coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, trace silt, loose, dry						165				
15									SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, little coarse subangular to subrounded gravel, trace fine subangular to rounded gravel, trace silt, loose, dry						160				
20				0					SAND: 2.5Y 6/4 light yellowish brown, some coarse sand, some medium sand, little fine sand, little fine angular to rounded gravel, trace coarse subangular to subrounded gravel, trace silt, loose, dry						155				
25									GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium sand, little coarse sand, little fine sand, little coarse subangular to rounded gravel, little fine subangular to rounded gravel, trace silt, loose, dry						150				
30				0					SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, little coarse sand, little fine subrounded to well rounded gravel, trace coarse subrounded gravel, trace silt, loose, dry						145				
35									SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, little coarse sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry						140				
40															135				

LOC ID: MW-293

Project Name: J-2 RANGE							Location: Wood Road Location 1			
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55							Easting: M1: 373993.97, M2: 373993.97, S: 373993.97			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45				0						130
50							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, dry			125
55										120
60				0			SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, trace coarse sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry			115
65										110
70				0			SAND: 2.5Y 6/6 olive yellow, some medium sand, little coarse sand, little fine sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry			105
75										100
80							SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace silt, loose, dry			95
85				0			SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry			90
90							SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, little coarse sand, trace to little fine rounded to well rounded gravel, trace rounded gravel, trace silt, loose, dry			85
95				0			SAND: 2.5Y 6/6 olive yellow, some medium sand,			80

[illegible]

Project Name: J-2 RANGE							Location: Wood Road Location 1		
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55							Easting: M1: 373993.97, M2: 373993.97, S: 373993.97		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
150				0			SAND: 2.5Y 6/4 light yellowish brown, some coarse sand, some medium sand, some fine sand, trace to little fine rounded to well rounded gravel, trace coarse rounded to well rounded gravel, trace silt, loose, wet	<p>In-situ Soil</p> <p>Bentonite Seal</p> <p>#00N WG</p>	20
155							SAND: 2.5Y 6/3 light yellowish brown, medium grained, some coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded to well rounded gravel, trace silt, loose, wet		15
160				0			SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		10
165									5
170				0			SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace coarse rounded gravel, trace fine rounded gravel, loose, wet		0
175									-5
180				0		SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse rounded gravel, trace fine rounded gravel, loose, wet		-10
185									-15
190									-20
195									-25
200							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, little silt, trace coarse subrounded gravel, trace fine subrounded gravel, loose, wet		

LOC ID: MW-293

Project Name: J-2 RANGE						Location: Wood Road Location 1				
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55						Easting: M1: 373993.97, M2: 373993.97, S: 373993.97				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205				0		SPSM		GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, some fine sand, little coarse sand, little medium sand, some fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace to little silt, loose, wet		-30
210								SAND: 2.5Y 6/4 light yellowish brown, some meidum sand, some fine sand, trace coarse sand, little fine subrounded to rounded gravel, trace coarse subrounded to rounded gravel, trace to little silt, loose, wet		-35
215				0				SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace fine rounded gravel, loose, wet		-40
220						SP		SAND: 2.5Y 5/4 light olive brown, some medium sand, some fine sand, little coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		-45
225				0				SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		-50
230						SPSM		SAND: 2.5Y 6/3 light yellowish brown, some fine sand, little coarse sand, little medium sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, wet		-55
235				0		SP		SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, grace silt, loose, wet		-60
240				0				SAND: 2.5Y 6/4 light yellowish brown, little coarse sand, little medium sand, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, wet		-65
245						SPSM		SAND: 2.5Y 6/5 light yellowish brown/light olive brown, fine grained, some medium sand, trace coarse sand, trace to little silt, trace coarse rounded gravel, trace fine rounded gravel, loose, wet		-70
250				0						-75
255						SM		SAND: 10YR 5/5 yellowish brown, fine grained, trace coarse sand, trace medium sand, little silt, trace fine rounded gravel, loose, wet	-80	

LOC ID: MW-293

Project Name: J-2 RANGE							Location: Wood Road Location 1			
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55							Easting: M1: 373993.97, M2: 373993.97, S: 373993.97			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260				0						-85
265										-90
270				0		SP	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet			-95
275										-100
280				0		SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, trace fine rounded gravel, trace clay, loose, wet			-105
285										-110
290				0			SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, some silt, trace clay, loose, wet		-115	
295									-120	
300				0			SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, trace medium sand, trace clay, loose, wet		-125	
305									-130	
						CL	CLAY: 2.5Y 6/4 light yellowish brown, some fine sand, trace medium sand, little silt, medium stiff, moist		-135	

Project Name: J-2 RANGE							Location: Wood Road Location 1		
Northing: M1: 4618986.45, M2: 4618986.50, S: 4618986.55							Easting: M1: 373993.97, M2: 373993.97, S: 373993.97		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
310				0		SC	GRAVELLY SAND: 5Y 4/4 olive, some fine sand, little coarse sand, little medium sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, little clay, trace silt, lose, wet	<div>#2 WG</div> <div>In-situ Soil</div>	-140
315									-145
320				0			GRAVELLY SAND: 5Y 5/4 olive, some fine sand, little coarse sand, little medium sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, little clay, trace silt, loose, moist		-150
325									-155
330				0		SPSM	GRAVELLY SAND: 5Y 5/4 olive, some medium sand, some fine sand, trace coarse sand, little coarse angular to well rounded gravel, little fine angular to well rounded gravel, trace to little silt, trace clay, loose, wet		-160
335									-165
340									-170
345							Notes: 1. Well Depths MW-293M1: 306.94 ft (BGS) MW-293M2: 206.92 ft (BGS) MW-293S: 120.45 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-293M1: 10.01 ft MW-293M2: 10.00 ft MW-293S: 10.02 ft 4. Screen Intervals MW-293M1: 296.26 - 306.27 ft (BGS) MW-293M2: 196.42 - 206.42 ft (BGS) MW-293S: 110.10 - 120.12 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 173.80 ft (MSL)		-175
350									-180
355									-185

LOC ID: MW-296

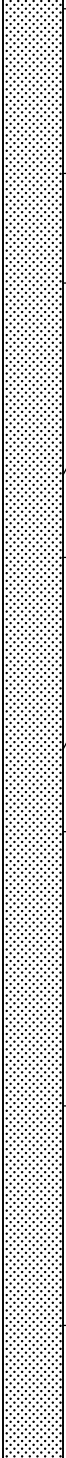
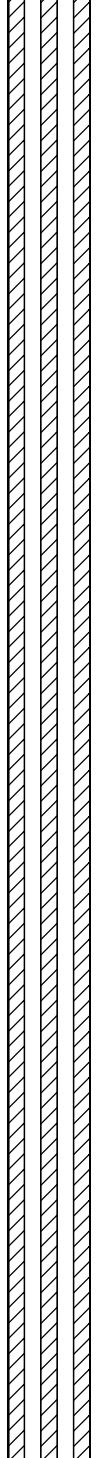
[illegible]

LOC ID: MW-296

Project Name: J-2 RANGE						Location: Jefferson Road, N. of Barlow				
Northing: M1: 4619754.17, M2: 4619754.22						Easting: M1: 374180.56, M2: 374180.56				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45										140
50										135
55							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine sand, little coarse sand, little fine subrounded to well rounded gravel, trace coarse subangular to well rounded gravel, trace silt, loose, dry			130
60							GRAVELLY SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, little coarse sand, little coarse subangular to rounded gravel, little fine subangular to rounded gravel, trace silt, loose, dry			125
65										120
70										115
75							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace to little coarse sand, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, dry			110
80							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine sand, little coarse sand, little fine subrounded to rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry			105
85							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, some fine subangular to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry			100
90										95
95							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, little coarse sand, little fine sand, little coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, little silt, loose, dry			

Project Name: J-2 RANGE							Location: Jefferson Road, N. of Barlow			
Northing: M1: 4619754.17, M2: 4619754.22							Easting: M1: 374180.56, M2: 374180.56			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
100										
105							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, little coarse sand, little fine subrounded to rounded gravel, trace coarse rounded gravel, trace silt, loose, dry			
110										
115							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, little fine subrounded to well rounded gravel, trace coarse rounded gravel, trace silt, loose, damp			
120							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, damp			
125							SAND: 2.5Y 6/6 olvie yellow, medium grained, some fine sand, little coarse sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet			
130										
135							GRAVELLY SAND: 2.5Y 6/6 olive yellow, some fine grained sand, little coarse sand, little medium sand, little coarse subrounded to well rounded gravel, little fine subrounded to well rounded gravel, trace silt, loose, wet			
140							SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, wet			
145							SAND: 2.5Y 5/6 light olive brown, fine and medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, loose, wet			

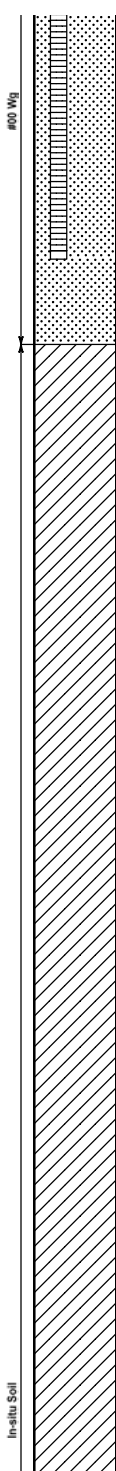
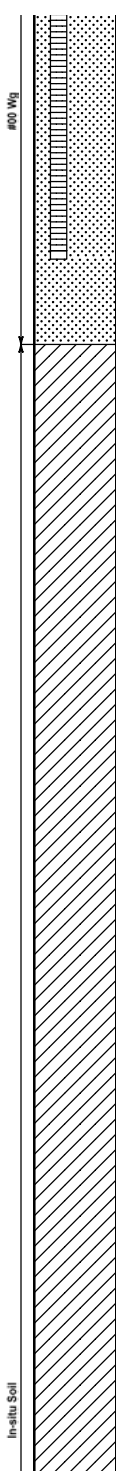
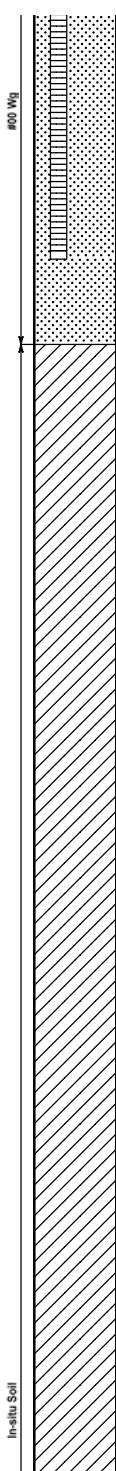
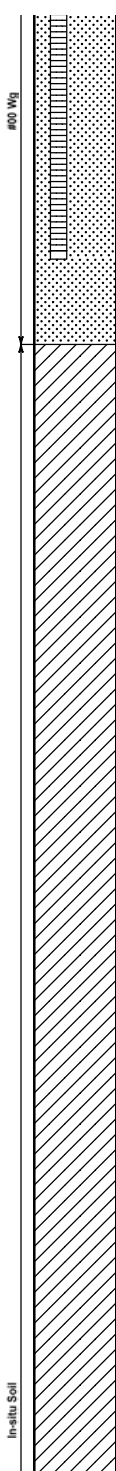
LOC ID: MW-296

Project Name: J-2 RANGE						Location: Jefferson Road, N. of Barlow				
Northing: M1: 4619754.17, M2: 4619754.22						Easting: M1: 374180.56, M2: 374180.56				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150								<p>SAND: 2.5Y 5/5 light olive brown, fine and medium grained, trace to little coarse sand, trace coarse rounded gravel, trace fine rounded to well rounded gravel, trace silt, loose, wet</p>		35
155										30
160										25
165										20
170										15
175										10
180										5
185										0
190								<p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet</p>		-5
195								<p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded to well rounded gravel, trace fine rounded to well rounded gravel, trace silt, loose, wet</p>		-10
200								<p>SAND: 2.5Y 6/6 olive yellow, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet</p>		-15

LOC ID: MW-296

Project Name: J-2 RANGE						Location: Jefferson Road, N. of Barlow					
Northing: M1: 4619754.17, M2: 4619754.22						Easting: M1: 374180.56, M2: 374180.56					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
205											-20
210							SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet				-25
215											-30
220						SPSM	SAND: 2.5Y 5/6 light olive brown, fine grained, little coarse sand, little medium sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace to little silt, loose, wet				-35
225						SP	GRAVELLY SAND: 2.5Y 5/6 light olive brown, fine grained sand, little medium sand, trace coarse sand, little coarse rounded gravel, little fine rounded to well rounded gravel, trace silt, loose, wet				-40
230						SPSM	SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, trace coarse sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet				-45
235							SAND: 2.5Y 5/6 light olive brown, fine grained, little coarse sand, little medium sand, trace to little silt, trace fine subrounded to rounded gravel, loose, wet				-50
240							SAND AND GRAVEL: 2.5Y 5/6 light olive brown, some fine grained sand, little coarse sand, little medium sand, some fine subrounded to well rounded gravel, little coarse subrounded to well rounded gravel, trace to little silt, loose, wet				-55
245							SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace fine rounded gravel, loose, wet				-60
250						SP	SAND: 2.5Y 5/5 light olive brown, fine grained, trace to little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet				-65
255											-70

LOC ID: MW-296

Project Name: J-2 RANGE							Location: Jefferson Road, N. of Barlow				
Northing: M1: 4619754.17, M2: 4619754.22							Easting: M1: 374180.56, M2: 374180.56				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
260						SPSM		SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, trace medium sand, trace to little silt, trace coarse rounded to well rounded gravel, trace fine rounded to well rounded gravel, loose, wet		-75	
265										-80	
270						SP		SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace coarse subrounded to well rounded gravel, trace fine subrounded to well rounded gravel, loose, wet		-85	
275										-90	
280						SP		GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some fine grained sand, little coarse sand, little medium sand, little coarse subrounded to well rounded gravel, little fine subrounded to well rounded gravel, trace silt, loose, wet		-95	
285										-100	
290										SAND: 2.5Y 6/6 olive yellow, coarse and medium grained, little fine sand, little fine subrounded to well rounded gravel, trace coarse subrounded to well rounded gravel, trace silt, loose, wet	-105
295										SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet	-110
300										SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet	-115
305							SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse sand, little coarse subangular to well rounded gravel, little fine subrounded to well rounded gravel, trace silt, loose, wet		-120		

LOC ID: MW-296

Project Name: J-2 RANGE							Location: Jefferson Road, N. of Barlow			
Northing: M1: 4619754.17, M2: 4619754.22							Easting: M1: 374180.56, M2: 374180.56			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										
						SPSM	GRAVELLY SAND: 2.5Y 6/6 olive yellow, fine grained sand, trace to little coarse sand, trace to little medium sand, some fine subangular to well rounded gravel, trace to little coarse subangular to well rounded gravel, trace to little silt, loose, wet			-125
315							SAND AND GRAVEL: 2.5Y 6/4 light yellowish brown, some fine grained sand, little coarse sand, little medium sand, some fine subangular to well rounded gravel, little coarse subangular to well rounded gravel, trace silt, loose, wet			-130
320						SP				
						SM	GRAVELLY SAND: 5Y 4/4 olive, little coarse grained sand, little medium sand, little fine sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, little silt, trace clay, loose, wet			-135
325							GRAVELLY SAND: 5Y 5/4 olive, little coarse grained sand, little medium sand, little fine sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, trace to little silt, trace clay, loose, wet			-140
330						SPSM	GRAVELLY SAND: 5Y 4/4 olive, some fine grained sand, little coarse sand, little medium sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, trace to little silt, trace clay, loose, wet			-145
							GRAVELLY SAND: 2.5Y 4/1 dark gray, some fine grained sand, little coarse sand, little medium sand, little coarse angular to well rounded gravel, little fine angular to well rounded gravel, trace to little silt, trace clay, loose, wet			-150
335										
340						SM	GRAVELLY SAND: 2.5Y 4/1 dark gray, some fine grained sand, little coarse sand, little medium sand, little coarse angular to well rounded gravel, little fine angular to well rounded gravel, little silt, trace clay, loose, wet.			-155
345						BR	BEDROCK: Uniform gravel lithology from 345 to 346.2 ft bgs: light gray granite (probable bedrock lithology); refusal and top of bedrock at 346.20 ft bgs			-160
350							Notes: 1. Well Depths MW-296M1: 265.39 ft (BGS) MW-296M2: 225.29 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-296M1: 10.00 ft MW-296M2: 10.00 ft 4. Screen Intervals MW-296M1: 255.08 - 265.08 ft (BGS) MW-296M2: 214.98 - 224.98 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 186.29 ft (MSL)			-165
355										-170
360										-175

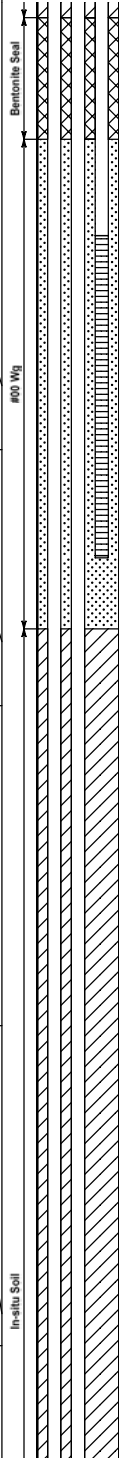
LOC ID: MW-300

Project Name: J-2 RANGE				Location:			
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17				Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 171.21, M2: 171.21, M3: 171.21 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 303.70, M2: 207.90, M3: 145.38				
Drilling Method: Air-Rotary			BH Depth/Diam: 340.40 ft (BGS), 8.00 in.		First Water ft (BGS): 103.1		
Sampling Method: Stainless Steel Bailer			Start/End Date: 11/24/2003 - 01/27/2004		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 98.73		
Logged by: D. Melcher		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 09/25/2006	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0								SM	GRAVELLY SAND: 2.5Y 4/4 olive brown, little coarse grained sand, little medium sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, little silt, trace organics, loose, dry		170
5								SP	SILTY SAND: 2.5Y 5/6 light olive brown, some fine grained sand, little medium sand, trace coarse sand, trace fine rounded gravel, trace organics, loose, dry		165
10									SAND: 2.5Y 5/4 light olive brown, coarse and medium grained, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, loose, dry		160
15									SAND: 2.5Y 5/4 light olive brown, medium and fine grained, little coarse sand, little coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry		155
20									SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry		150
25									GRAVELLY SAND: 2.5Y 6/8 olive yellow, some fine grained sand, little coarse sand, little medium sand, some coarse rounded to well rounded gravel, little fine rounded to well rounded gravel, trace silt, loose, dry		145
30									SAND: 2.5Y 5/6 light olive brown, fine to coarse grained, little fine subangular to rounded gravel, trace coarse subangular to rounded gravel, trace silt, loose, dry	140	
35								NACM	GRANITE BOULDERS: Changes in high pressure suggest multiple boulders ranging in size from 1-3 ft.		135

[illegible]

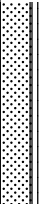
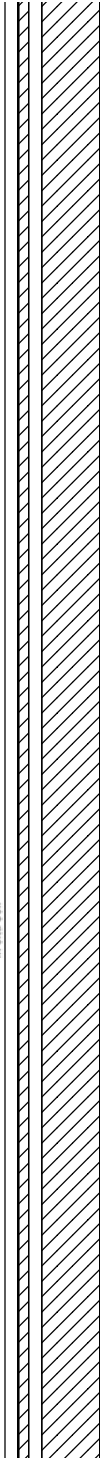
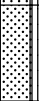
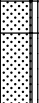

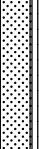

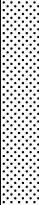

LOC ID: MW-300

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17							Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
130										40
135										35
140							SAND: 2.5Y 5/6 light olive brown, fine grained, some medium sand, trace coarse sand, trace coarse subangular to well rounded gravel, trace fine subangular to well rounded gravel, trace silt, loose, wet			30
145							GRAVELLY SAND: 2.5Y 5/6 light olive brown, some fine grained sand, little coarse sand, little medium sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, trace silt, loose, wet			25
150							SAND: 2.5Y 5/6 light olive brown, fine grained, some medium sand, trace to little coarse sand, trace coarse subrounded to well rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet			20
155							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to well rounded gravel, trace silt, loose, wet			15
160							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, wet			10
165							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet			5
170							SAND: 2.5Y 4/3 light olive brown, fine grained, little medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine subangular to well rounded gravel, trace silt, loose, wet			0

LOC ID: MW-300

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17							Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
175							SAND: 2.5Y 4/3 olive brown, fine grained, little medium sand, trace coarse sand, trace fine subangular to rounded gravel, trace silt, loose, wet		-5
180							SAND: 2.5Y 4/3 olive brown, fine grained, trace coarse sand, trace medium sand, trace coarse subangular to well rounded gravel, trace fine subangular to well rounded gravel, trace silt, loose, wet		-10
185									-15
190							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, trace coarse subrounded to well rounded gravel, trace fine rounded to well rounded gravel, trace silt, loose, wet		-20
195									-25
200							GRAVELLY SAND: 2.5Y 5/4 light olive brown, some fine grained sand, little coarse sand, little medium sand. little coarse rounded to well rounded gravel, little fine rounded to well rounded gravel, trace silt, loose, wet		-30
205									-35
210						SPSM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, trace fine subrounded to well rounded gravel, trace silt, loose, wet		-40
215							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace to little silt, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, loose, wet		-45

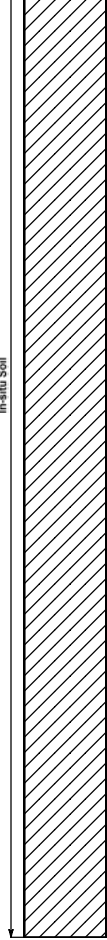
LOC ID: MW-300

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17							Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
220							 <p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, loose, wet</p>		-50	
225							 <p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, little coarse rounded to well rounded gravel, trace fine rounded to well rounded gravel, trace to little silt, loose, wet</p>		-55	
230							 <p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, trace to little silt, trace coarse subrounded gravel, trace fine rounded gravel, loose, wet</p>		-60	
235							 <p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace to little silt, trace coarse subrounded to rounded gravel, trace fine subrounded to well rounded gravel, loose, wet</p>		-65	
240						SP	 <p>GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, little coarse grained sand, little medium sand, little fine sand, little coarse rounded to well rounded gravel, little fine rounded to well rounded gravel, trace silt, loose, wet</p>		-70	
245									-75	
250						SPSM	 <p>SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace to little silt, trace fine subrounded to rounded gravel, loose, wet</p>		-80	
255						SP	 <p>SAND: 2.5Y 6/8 olive yellow, fine grained, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet</p>		-85	
260						SPSM	 <p>GRAVELLY SAND: 2.5Y 6/8 olive yellow, some fine grained sand, little coarse sand, little medium sand, little coarse rounded to well rounded gravel, little fine rounded to well rounded gravel, trace to little silt, loose, wet</p>		-90	
265										

LOC ID: MW-300

Project Name: J-2 RANGE						Location:					
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17						Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram Elevation (ft msl)
270											-95
275											-100
280											-105
285						SM	SAND: 10YR 4/6 dark yellowish brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace fine rounded gravel, loose, wet				-110
290							SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, loose, wet				-115
295							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, little silt, loose, wet				-120
300											-125
305											-130
310							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, little silt, trace				-135

LOC ID: MW-300

Project Name: J-2 RANGE						Location:				
Northing: M1: 4618935.07, M2: 4618935.12, M3: 4618935.17						Easting: M1: 374097.26, M2: 374097.26, M3: 374097.26				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
315						SPSM	fine subrounded to rounded gravel, loose, wet			-140
320							GRAVELLY SAND: 5Y 4/4 olive, little coarse to fine grained sand, little coarse subangular to subrounded gravel, little fine subangular to rounded gravel, trace to little silt, loose, wet			-145
325						SM	GRAVELLY SAND: 5Y 4/4 olive, little coarse to fine grained sand, little coarse subangular to rounded gravel, little fine subangular to rounded gravel, little silt, trace clay, loose, wet			-150
330							SAND: 5Y 4/4 olive, medium and fine grained, little coarse sand, little fine angular to well rounded gravel, trace coarse subangular to rounded gravel, little silt, trace clay, loose, wet			-155
335										-160
340										-165
345										-170
350										-175
							Notes: 1. Well Depths MW-300M1: 303.70 ft (BGS) MW-300M2: 207.90 ft (BGS) MW-300M3: 145.38 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-300M1: 9.99 ft MW-300M2: 10.00 ft MW-300M3: 10.00 ft 4. Screen Intervals MW-300M1: 293.03 - 303.02 ft (BGS) MW-300M2: 197.23 - 207.23 ft (BGS) MW-300M3: 135.31 - 145.31 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 171.38 ft (MSL)			-180

LOC ID: MW-302

Project Name: J-2 RANGE				Location:			
Northing: M1: 4619021.84, M2: 4619021.94				Easting: M1: 373921.24, M2: 373921.24			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 176.63, M2: 176.63 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 310.42, M2: 205.11				
Drilling Method: Air-Rotary			BH Depth/Diam: 338.53 ft (BGS), 8.00 in.			First Water ft (BGS): 109	
Sampling Method: Stainless Steel Bailer			Start/End Date: 12/08/03 - 02/11/04			Well Diameter (in.): 2.50	
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 108.40	
Logged by: D. Melcher		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 11/15/04	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20 CPS	45 Conductivity	70				
0											180
									ML GPGM SP SPSM SP		175
5									SILT: 2.5Y 4/4 olive brown, little fine grained sand, trace coarse sand, trace medium sand, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace clay, trace organics, very soft, dry		170
10									SANDY GRAVEL: 2.5Y 4/4 olive brown, some coarse subrounded to well rounded gravel, little fine subrounded to well rounded gravel, some coarse sand, trace to little silt, loose, dry		165
15									SAND: 2.5Y 5/5 light olive brown, medium grained, little fine sand, trace coarse sand, little fine rounded gravel, trace coarse rounded to well rounded gravel, trace silt, loose, dry		160
20									GRAVELLY SAND: 2.5Y 4/4 olive brown, some coarse grained sand, little medium sand, little fine sand, some coarse subrounded to well rounded gravel, little fine subrounded to rounded gravel, trace to little silt, loose, dry		155
25									GRAVELLY SAND: 2.5Y 5/4 light olive brown, some coarse grained sand, little medium sand, trace to little fine sand, some fine rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, dry		150
30									GRAVELLY SAND: 2.5Y 5/5 light olive brown, some medium grained sand, little coarse sand, little fine sand, little coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, trace silt, loose, dry		145
35									SAND: 2.5Y 5/5 light olive brown, medium grained, some coarse sand, little fine sand, little coarse rounded		

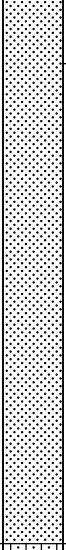
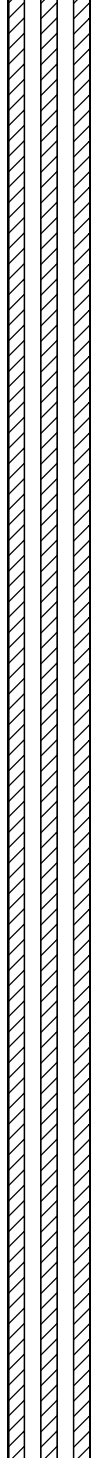
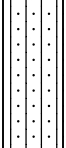
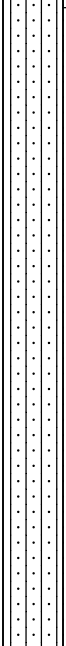
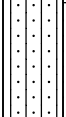
LOC ID: MW-302

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619021.84, M2: 4619021.94							Easting: M1: 373921.24, M2: 373921.24			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40								to well rounded gravel, trace to little fine rounded to well rounded gravel, trace silt, loose, dry		140
45								SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, dry		135
50								SAND: 2.5Y 6/7 olive yellow, fine and medium grained, trace to little coarse sand, trace to little coarse subrounded to rounded gravel, trace fine rounded to well rounded gravel, trace silt, loose, dry		130
55								SAND: 2.5Y 6/6 olive yellow, fine and medium grained, little coarse sand, trace to little fine subrounded to rounded gravel, trace coarse subrounded gravel, trace silt, loose, dry		125
60								SAND: 2.5Y 6/5 light olive yellowish brown, medium and fine grained, little coarse sand, trace fine rounded gravel, trace silt, loose, dry		120
65								SAND: 2.5Y 6/5 light olive yellowish brown, medium and fine grained, little coarse sand, trace fine rounded gravel, trace coarse		115
70										110
75										105
80										100
										95

LOC ID: MW-302

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619021.84, M2: 4619021.94							Easting: M1: 373921.24, M2: 373921.24			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
85										90
90								subrounded gravel, trace silt, loose, dry		85
95								GRAVELLY SAND: 2.5Y 5/5 light olive brown, some coarse grained sand, some medium sand, little fine sand, little coarse subrounded to rounded gravel, little fine subrounde to rounded gravel, trace silt, loose, dry		80
100								SAND: 2.5Y 6/5 light yellowish olive brown, medium grained, some coarse sand, little fine sand, little fine subrounded gravel, trace coarse subrounded gravel, trace silt, loose, dry		75
105										70
110						SPSM		SAND: 2.5Y 5/5 light olive brown, medium grained, some coarse sand, trace fine subrounded gravel, trace to little silt, loose, wet		65
115										60
120										55
125						SP		SAND: 2.5Y 5/5 light olive brown, medium and coarse grained, little fine sand, some fine subangular ot subrounded gravel, trace silt, loose, wet		50

LOC ID: MW-302

Project Name: J-2 RANGE						Location:				
Northing: M1: 4619021.84, M2: 4619021.94						Easting: M1: 373921.24, M2: 373921.24				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
130								SAND: 2.5Y 5/5 light olive brown, fine grained, some medium sand, some coarse sand, trace fine subrounded gravel, trace silt, loose, wet		45
135										40
140										35
145						SM		SAND: 2.5Y 5/6 light olive brown, fine grained, some medium sand, trace coarse sand, little silt, loose, wet		30
150								SAND: 2.5Y 6/4 light olive brown, fine grained, some medium sand, trace coarse sand, little silt, loose, wet		25
155										20
160										15
165										10
170								SAND: 2.5Y 6/5 light yellowish brown, fine grained, some slit, trace to little medium sand, trace coarse sand, trace clay, loose, wet		5


LOC ID: MW-302

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619021.84, M2: 4619021.94							Easting: M1: 373921.24, M2: 373921.24			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
175										0
180										-5
185										-10
190						SPSM	SILTY SAND: 2.5Y 5/4 light olive brown, some fine grained sand, trace to little medium sand, trace coarse sand, trace clay, loose, wet			-15
195						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, trace to little medium sand, trace coare sand, trace to little fine subrounded to rounded gravel, trace subrounded to rounded coarse gravel, loose, wet			-20
200										-25
205										-30
210						SP	SAND: 2.5Y 6/5 light olive yellowish brown, fine to coarse grained, little fine subangular to subrounded gravel, trace coarse subrounded gravel, trace silt, loose, wet			-35
215							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace to little fine sand, little fine subrounded to rounded gravel, trace coarse subangular gravel, trace silt, loose, wet			-40

LOC ID: MW-302

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619021.84, M2: 4619021.94							Easting: M1: 373921.24, M2: 373921.24			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
270										-90
275						SM	SAND: 2.5Y 6/5 light olive yellowish brown, fine and medium grained, some silt, trace coarse sand, trace clay, loose, wet			-95
280						SPSM	SAND: 2.5Y 6/5 light yellowish brown, fine and medium grained, trace to little silt, trace coarse sand, loose, wet			-100
285										-105
290						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, little silt, trace coarse sand, loose, wet			-110
295										-115
300										-120
305										-125
310						SP	GRAVELLY SAND: 2.5Y 5/4 light olive brown, some			-130

LOC ID: MW-302

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619021.84, M2: 4619021.94							Easting: M1: 373921.24, M2: 373921.24			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
315										-135
320							coarse grained sand, little medium sand, little fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace silt, loose, wet			-140
325							GRAVELLY SAND: 2.5Y 5/4 light olive brown, some coarse grained sand, little medium sand, little fine sand, little fine subrounded to rounded gravel, trace to little coarse subrounded gravel, trace silt, loose, wet			-145
330							SAND: 2.5Y 6/5 light olive yellowish brown, coarse and medium grained, littel fine sand, little fine subangular to rounded gravel, trace coarse subangular to subrounded gravel, trace silt, loose, wet			-150
335										-155
340										-160
345								Notes: 1. Well Depths MW-302M1: 310.42 ft (BGS) MW-302M2: 205.11 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-302M1: 10.10 ft MW-302M2: 10.08 ft 4. Screen Intervals MW-302M1: 299.64 - 309.74 ft (BGS) MW-302M2: 194.35 - 204.43 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 177.05 ft (MSL)		-165
350								Printed on 11/01/06		-170

LOC ID: MW-305

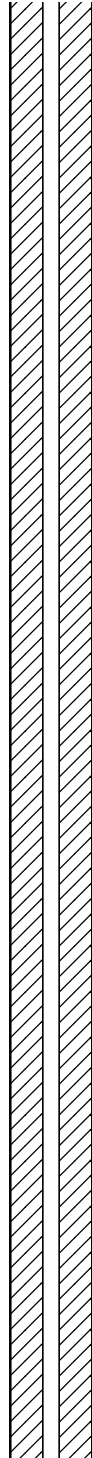
[illegible]

[illegible]

LOC ID: MW-305

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618882.99							Easting: M1: 374197.58			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
85										95
							SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace coarse subangular to rounded gravel, trace fine subangular to rounded gravel, trace silt, loose, dry			90
90							SAND: 2.5Y 6/6 olive yellow, fine grained, little medium sand, trace coarse sand, trace coarse subrounded to well rounded gravel, trace silt, loose, dry			85
95										80
100							SAND: 2.5Y 6/6 olive yellow, some medium sand, some fine sand, little coarse sand, trace to little fine subangular to well rounded gravel, trace coarse subangular to rounded gravel, trace silt, loose, dry			75
105							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace to little coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, dry			70
110							SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, some fine sand, trace to little fine subangular to rounded gravel, trace silt, loose, dry			65
115							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, little fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet			60
120						SM	SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, little medium sand, trace coarse sand, trace fine rounded gravel, loose, wet			55
125							SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, little silt, trace coarse subrounded to rounded gravel, trace fine subrounded to			50

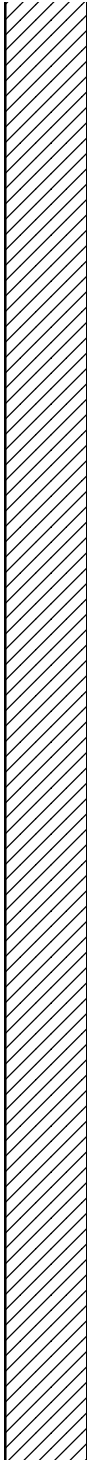
LOC ID: MW-305

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618882.99							Easting: M1: 374197.58			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
130								rounded gravel, loose, wet		45
135								SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, some silt, trace fine subangular to rounded gravel, loose, wet		40
140								SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, little silt, trace coarse subrounded gravel, trace fine subangular to rounded gravel, loose, wet		35
145								SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse subrounded gravel, trace fine subrounded to well rounded gravel, loose, wet		30
150								SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse subrounded gravel, trace fine subrounded to well rounded gravel, loose, wet		25
155								SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse subrounded gravel, trace fine subrounded to well rounded gravel, loose, wet		20
160						SP		SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, damp		15
165						SM		SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse subrounded to well rounded gravel, trace fine rounded to well rounded gravel, loose, wet		10
170						SP		SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, trace silt, loose, wet		5
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, trace fine rounded gravel, trace silt, loose, wet		

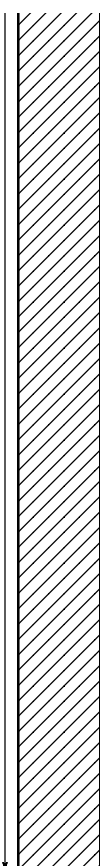
LOC ID: MW-305

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618882.99							Easting: M1: 374197.58		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
175									
180							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, wet		0
185							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose, wet		-5
190							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium sand, little coarse sand, little fine sand, little coarse subangular to well rounded gravel, little fine subangular to well rounded gravel, trace silt, loose, wet		-10
195									-15
200						SPSM	SAND: 2.5Y 5/4 light olive brown, some medium sand, some fine sand, little coarse sand, little fine subangular to rounded gravel, trace coarse subangular to rounded gravel, trace to little silt, loose, wet		-20
205						SP	SAND: 2.5Y 6/4 light yellowish brown, some medium sand, some fine sand, little coarse sand, little fine subangular to well rounded gravel, trace coarse subangular to rounded gravel, trace silt, loose, wet		-25
210							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse subangular to subrounded gravel, trace fine subangular to rounded gravel, trace silt, loose, wet		-30
215							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse subangular to rounded gravel, trace fine subangular to well rounded gravel, trace silt, loose, wet		-35
									-40

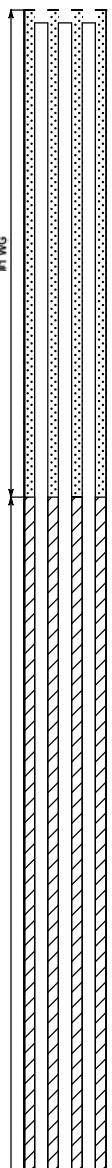
LOC ID: MW-305

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618882.99							Easting: M1: 374197.58			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
270										-90
								SAND: 10YR 5/6 yellowish brown, fine and medium grained, trace coarse sand, trace silt, loose, wet		-95
275								SAND: 10YR 5/6 yellowish brown, fine and medium grained, trace coarse sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		-100
280								SAND: 10YR 5/6 yellowish brown, fine grained, some medium sand, trace coarse sand, trace fine rounded gravel, trace silt, loose, wet		-105
285						SPSM		SAND: 10YR 5/6 yellowish brown, fine grained, trace coarse sand, trace medium sand, trace to little silt, trace coarse well rounded gravel, trace fine rounded to well rounded gravel, loose, wet		-110
290										-115
295						SM		SAND: 10YR 5/6 yellowish brown, fine grained, trace medium sand, little silt, loose, wet		-120
300								SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, trace coarse sand, trace to little silt, trace fine rounded gravel, loose, wet		-125
305						SPSM				-130
310						SM		SILTY SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, trace medium sand, soft, wet		
						ML		SANDY SILT: 2.5Y 5/4 light olive brown, fine grained		

LOC ID: MW-305

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618882.99							Easting: M1: 374197.58		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
315							sand, trace medium sand, trace clay, soft, wet		-135
320									
325							SILT: 2.5Y 5/4 light olive brown, some fine sand, trace to little medium sand, trace clay, soft, wet		-145
330									-150
335						CL	CLAY: 5Y 5/4 olive, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, little fine sand, trace coarse sand, trace medium sand, little silt, soft, wet		-155
							CLAY: 5Y 5/4 olive, some fine angular to subangular gravel, little fine sand, trace coarse sand, trace meidum sand, little silt, soft, wet. Uniform gravel and coarse sand lithology (coarse grained light gray granite) highly angular w/ clean faces		-160
340							Notes: 1. MW-305M1 Well Depth 213.50 ft (BGS) 2. SCH 80 PVC 3. MW-305M1 Screen length 10.00 ft 4. MW-305M1 Screen Interval 202.82 - 212.82 ft (BGS) 5. MW-305M1 Slot Size 0.010 in. 6. MW-305M1 Surface Elevation: 177.60 ft (MSL) Printed on 11/01/06		-165
345									-170
350									

LOC ID: MW-307

Project Name: J-2 RANGE										Location:		
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88										Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94		
Drilling Contractor: D. L. Maher Co.					Elevation ft (MSL): M1: 172.46, M2: 172.46, M3: 172.46 @ Top PVC							
Drilling Equipment: Dual Air Rotary					Well Depth ft (BGS): M1: 306.36, M2: 241.96, M3: 136.02							
Drilling Method: Air-Rotary					BH Depth/Diam: 330.66 ft (BGS), 8.00 in.				First Water ft (BGS): 109			
Sampling Method: Stainless Steel Bailer					Start/End Date: 01/20/04 - 03/23/04				Well Diameter (in.): 2.50			
Const. Materials SCH 80 PVC					Project Number: 35AY5301				Static Water ft (BTOC): 101.61			
Logged by: D. Melcher			Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 01/30/06			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram	Elevation (ft msl)
0						SM	SILTY SAND: 2.5Y 5/4 light olive brown, some fine grained sand, little coarse sand, little medium sand, little fine subangular to rounded grave, trace organics, soft, dry					175
5						SP	SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine subrounded to rounded gravel, trace silt, loose					170
10							GRAVELLY SAND: 2.5Y 6/6 olive yellow, some medium grained sand, some fine sand, little coarse sand, little coarse rounded gravel, little fine subrounded to well rounded gravel, trace silt, loose, dry					165
15						NACM	GRANITE BOULDER					160
20						SP	SAND: 2.5Y 6/4 light yellowish brown, medium and fine grained, little coarse sand, little coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, loose, dry					155
25							GRAVELLY SAND: 2.5Y 5/4 light olive brown, some medium grained sand, little coarse sand, little fine sand, some coarse rounded gravel, little fine rounded gravel, trace silt, loose, dry					150
30							SAND: 2.5Y 7/6 yellow, medium grained, little fine sand, trace coarse sand, trace coarse subrounded to rounded gravel, trce silt, loose, dry				145	
35							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, some coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry				140	
							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, some fine sand, little coarse sand, little coarse angular to rounded gravel, little fine subangular to rounded gravel, trace silt, loose, dry					

LOC ID: MW-307

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40										135
45							GRAVELLY SAND: 2.5Y 6/6 olive yellow, some medium grained sand, little coarse sand, little fine sand, some coarse subangular to rounded gravel, little fine subrounded to rounded gravel, trace silt, loose, dry			130
50							GRAVELLY SAND: 2.5Y 6/6 olive yellow, medium grained sand, little fine sand, trace coarse sand, some coarse subangular to rounded gravel, little fine subrounded to rounded gravel, trace silt, loose, dry			125
55										120
60										115
65							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, little coarse rounded gravel, trace fine rounded gravel, trace silt, loose, dry			110
70							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace silt, loose, dry			105
75						NACM	GRANITE BOULDER			100
80						SP	SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace silt, loose, dry			95
							SAND: 2.5Y 6/6 olive yellow, medium grained, some			

LOC ID: MW-307

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
85										
90								coarse sand, some fine gravel, trace silt, loose, dry		90
95								SAND: 2.5Y 7/6 yellow, medium grained, little coarse sand, little fine sand, little fine gravel, trace silt, very dense, slightly moist		85
100								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, trace silt, loose, wet		80
105								SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, little fine gravel, trace silt, loose, wet		75
110										70
115										65
120										60
125						SPSM		SAND: 2.5Y 6/6 olive yellow, medium grained, little fine sand, trace to little silt, very dense, wet		55
										50
										45

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
130									
135							SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, trace to little silt, trace fine subangular to subrounded gravel, very dense, wet		40
140						SP	SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, trace fine subangular to subrounded gravel, trace silt, vey dense, wet		30
145									25
150							SAND: 2.5Y 6/6 olive yellow, medium and coarse grained, trace fine gravel, trace silt, dense, wet		20
155									15
160							GRAVELLY SAND: various collors, coarse grained sand, some medium sand, fine subangular to subrounded gravel, loose, wet		10
165									5
170							SAND: 2.5Y 6/6 olive yellow, medium grained, trace coarse sand, trace fine gravel, trace silt, dense, wet		0

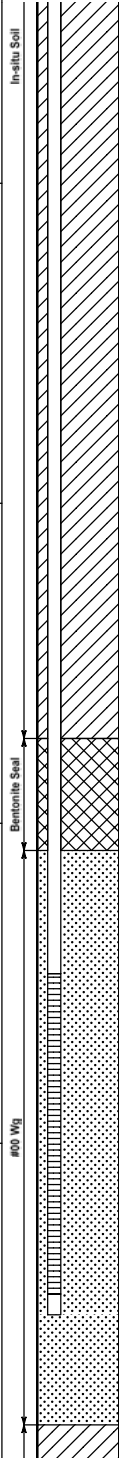
LOC ID: MW-307

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
175								<div><div></div><div>In-situ Soil</div><div></div><div></div><div></div></div>	-5	
180									-10	
185							SAND: 2.5Y 6/6 olive yellow, medium grained, little fine sand, trace coarse sand, trace silt, very dense, wet		-15	
190							SAND: 2.5Y 7/6 yellow, medium grained, some fine sand, trace fine gravel, trace silt, very dense, wet		-20	
195							SAND: 2.5Y 7/6 yellow, medium and coarse grained, trace to little fine gravel, trace silt, dense, wet		-25	
200									-30	
205									-35	
210							SAND: 2.5Y 7/6 yellow, fine grained, some medium sand, trace silt, very dense, wet		-40	
215									-45	


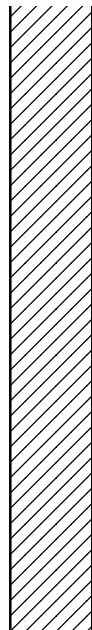

LOC ID: MW-307

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
220									
225							SAND: 2.5Y 7/6 yellow, medium grained, little fine sand, trace coarse sand, trace silt, dense, wet; fine to coarse subangular to subrounded gravel @ 226 ft bgs		-50
230									
235							SAND: 2.5Y 7/6 yellow, medium grained, some fine sand, trace silt, very dense, wet		-60
240									
245							SAND: 2.5Y 7/4 yellow, coarse grained, some medium sand, little fine sand, trace fine gravel, trace silt, dense, wet		-70
250									
255							SAND: 2.5Y 7/6 yellow, medium grained, some fine sand, trace coarse sand, trace silt, very dense, wet		-80
260									
265							SAND: 2.5Y 7/6 yellow, fine grained, trace coarse sand, very dense, wet		-90

LOC ID: MW-307

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
270									-95
275							SAND: 2.5Y 7/6 yellow, fine grained, trace silt, very dense, wet		-100
280							SAND: 2.5Y 7/6 yellow, medium and fine grained, trace coarse sand, trace silt, very dense, wet; fine gravel @ 288 ft bgs		-105
285									-110
290							SAND: 2.5Y 7/6 yellow, fine grained, some medium sand, trace fine gravel, trace silt, very dense, wet		-115
295									-120
300									-125
305							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace silt, dense, wet		-130
310									-135

LOC ID: MW-307

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617869.78, M2: 4617869.83, M3: 4617869.88							Easting: M1: 374063.94, M2: 374063.94, M3: 374063.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
315							 SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, trace silt, dense, wet		-140
320									-145
325							-150		
330						GM 	TILL: Subrounded gravel, medium sands, silts and weathered dark gray/black graniote bedrock		-155
335							Notes: 1. Well Depths MW-307M1: 306.36 ft (BGS) MW-307M2: 241.96 ft (BGS) MW-307M3: 136.02 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-307M1: 10.01 ft MW-307M2: 10.00 ft MW-307M3: 10.02 ft 4. Screen Intervals MW-307M1: 295.70 - 305.71 ft (BGS) MW-307M2: 231.46 - 241.46 ft (BGS) MW-307M3: 125.80 - 135.82 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 172.86 ft (MSL)		-160
									-165
340									-170

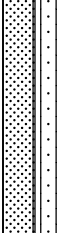
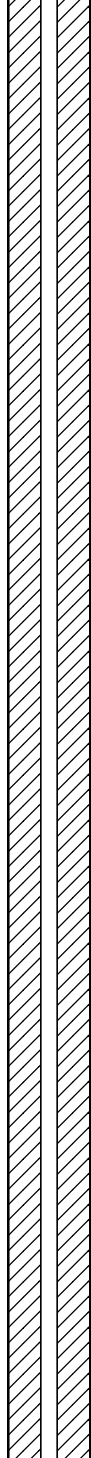
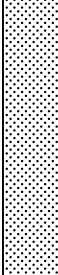
LOC ID: MW-310

[illegible]

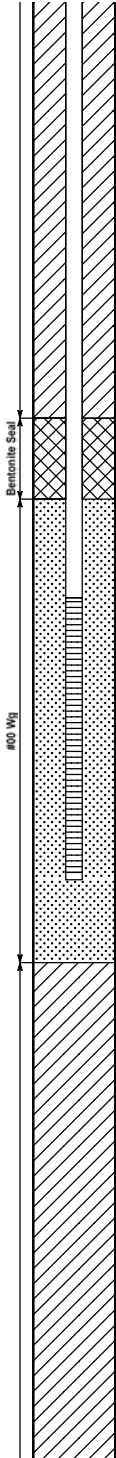
LOC ID: MW-310

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617908.93							Easting: M1: 374672.18			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45										105
50							SAND: 10YR 4/3 brown, medium grained, little fine sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, loose, dry			100
55										95
60						SPSM	SAND: 2.5Y 5/4 yellowish brown, medium grained, trace to little fine sand, trace coarse sand, trace fine subangular to rounded gravel, trace to little silt, loose, dry			90
65							SAND: 2.5Y 5/6 light olive brown, medium grained, little fine sand, trace coarse sand, trace to little silt, loose, dry			85
70							SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace to little silt, loose, dry			80
75										75
80							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace fine subangular to subrounded gravel, trace to little silt, loose, slightly moist			70
85						SP	SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, trace fine subangular to rounded gravel, trace silt, loose, slightly moist			65
90						SPSM	SAND: 10YR 4/3 brown, medium grained, little fine sand, trace coarse sand, little fine subangular to rounded gravel, trace to little silt, loose, wet			60
95										

LOC ID: MW-310

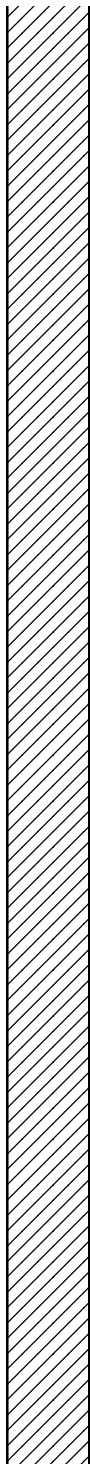
Project Name: J-2 RANGE							Location:			
Northing: M1: 4617908.93							Easting: M1: 374672.18			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100								SAND: 10YR 4/3 brown, medium grained, some fine sand, trace coarse sand, trace to little silt, loose, wet		55
105						SP		SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine angular to rounded gravel, trace silt, loose, wet		45
110						SPSM		SAND: 2.5Y 4/4 olive brown, fine grained, some medium sand, trace coarse sand, trace fine angular to subangular gravel, trace to little silt, loose, wet		40
115						SW		GRAVELLY SAND: 2.5Y 4/4 olive brown, little medium grained sand, little coarse sand, little fine sand, some fine angular to subrounded gravel, trace angular to subrounded gravel, trace silt, loose, wet		35
120						SM		SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, trace medium sand, trace coarse sand, trace fine angular to subrounded gravel, little silt, loose, wet		30
125										25
130										20
135						SP		SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, trace coarse sand, trace fine angular to subrounded gravel, trace silt, loose, wet		15
140								SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, trace coarse sand, trace fine angular to subrounded gravel, trace silt, loose, wet		10
145										5

LOC ID: MW-310

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617908.93							Easting: M1: 374672.18			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150								SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, trace coarse sand, trace fine angular to subangular gravel, trace silt, loose, wet		0
155										-5
160										-10
165						GP		SANDY GRAVEL: fine angular to subrounded gravel, trace coarse angular to subrounded gravel, little coarse grained, trace to little medium sand, trace fine sand, trace silt, loose, wet		-15
170						SP		SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, trace fien subangular to rounded gravel, trace silt, loose, wet		-20
175								SAND: coarse grained, trace to little medium sand, trace fine sand, little fine subangular to rounded gravel, trace silt, loose, wet		-25
180								SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular to rounded gravel, trace silt, loose, wet		-30
185										-35
190								SAND: 2.5Y 5/3 light olive brown, fine grained, little medium sand, trace coarse sand, trace silt, loose, wet		-40
195										-45
200						SPSM		SAND: 2.5Y 5/3 light olive brown, fine grained, trace to little silt, loose, wet		-45
						SM		SAND: 2.5Y 5/2 grayish brown, fine grained, little silt, loose, wet		-50

[illegible]

LOC ID: MW-310

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617908.93							Easting: M1: 374672.18			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-105
265										-110
270										-115
275							SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, loose, wet			-120
280										-125
285										-130
290										-135
295							SAND: 2.5Y 4/3 olive brown, fine grained, little medium sand, little silt, loose, wet			-140
300						SP				-145
305							SAND: 2.5Y 5/3 light olive brown, fine grained, little medium sand, trace silt, loose, wet			-150
										-155

LOC ID: MW-310

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617908.93							Easting: M1: 374672.18			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										
315										
320						GP	GRANITE BEDROCK: gray, angular, highly fractured			-160
325							Notes: 1. MW-310M1 Well Depth 181.68 ft (BGS) 2. SCH 80 PVC 3. MW-310M1 Screen length 10.01 ft 4. MW-310M1 Screen Interval 171.40 - 181.41 ft (BGS) 5. MW-310M1 Slot Size 0.010 in. 6. MW-310M1 Surface Elevation: 152.60 ft (MSL) Printed on 01/10/07			-165
330										-170
335										-175
										-180

LOC ID: MW-313

[illegible]

LOC ID: MW-313

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619636.73, M2: 4619636.78, M3: 4619636.83							Easting: M1: 374362.91, M2: 374362.91, M3: 374362.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
85										100
90										95
95							SAND: 2.5Y 8/3 pale yellow, medium grained, trace to little fine sand, trace coarse sand, trace silt, medium dense, dry			90
100										85
105							SAND: 2.5Y 8/4 pale yellow, medium grained, trace to little fine sand, trace coarse sand, trace silt, medium dense, dry			80
110										75
115							SAND: 2.5Y 7/4 pale yellow, medium grained, little fine sand, trace coarse sand, trace silt, medium dense, damp			70
120										65
125							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, little fine sand, trace silt, medium dense, moist			60

LOC ID: MW-313

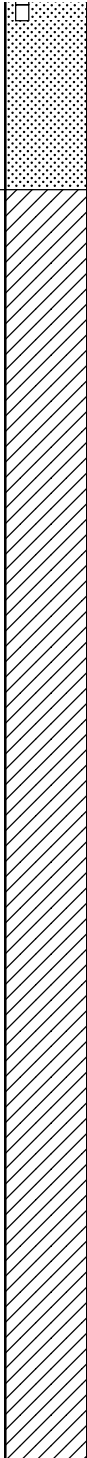
Project Name: J-2 RANGE							Location:		
Northing: M1: 4619636.73, M2: 4619636.78, M3: 4619636.83							Easting: M1: 374362.91, M2: 374362.91, M3: 374362.91		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
130									55
135							GRAVELLY SAND: 2.5Y 5/4 light olive brown, little coarse grained sand, little medium sand, little fine sand, some fine angular to rounded gravel, trace coarse subrounded gravel, trace silt, loose, wet		50
140							GRAVELLY SAND: 2.5Y 6/6 olive yellow, medium grained sand, little coarse sand, little fine sand, some fine angular to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet		45
145							SAND: 2.5Y 5/4 light olive brown, fine and medium grained, trace coarse sand, trace fine rounded to subrounded gravel, trace silt, loose, wet		40
150							GRAVELLY SAND: 2.5Y 6/6 olive yellow, medium grained sand, little coarse sand, trace fine sand, some fine subrounded to well rounded gravel, trace coarse subrounded to rounded gravel, trace silt, loose, wet		35
155							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace to little coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, loose, wet		30
160							SAND: 10YR 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, medium dense, wet		25
165									20
170							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, medium dense, wet		15

LOC ID: MW-313

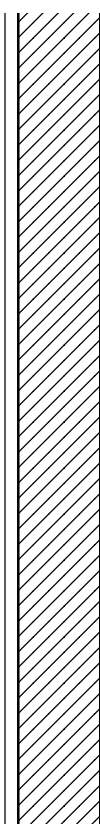
Project Name: J-2 RANGE							Location:		
Northing: M1: 4619636.73, M2: 4619636.78, M3: 4619636.83							Easting: M1: 374362.91, M2: 374362.91, M3: 374362.91		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
175									10
180							SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace fine sand, trace fine angular to subrounded gravel, trace silt, medium dense, wet		5
185									0
190							SAND: 2.5Y 6/6 olive yellow, medium grained, little fine sand, trace coarse sand, trace fine angular to subrounded gravel, trace silt, medium dense, wet		-5
195									-10
200							SAND: 2.5Y 5/4 light olive brown, coarse grained, little medium sand, little fine sand, trace fine angular to subrounded gravel, trace coarse angular to subrounded gravel, dense, wet		-15
205									-20
210						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little silt, medium dense, wet		-25
215									-30

[illegible]

LOC ID: MW-313

Project Name: J-2 RANGE							Location:						
Northing: M1: 4619636.73, M2: 4619636.78, M3: 4619636.83							Easting: M1: 374362.91, M2: 374362.91, M3: 374362.91						
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)			
270										-80			
							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, little silt, little fine angular to subrounded gravel, medium dense, wet				-85		
							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little silt, little fine angular to subrounded gravel, little coarse angular to subrounde gravel, gravel is predominantly pink granite, dense, wet					-90	
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little angular to subrounded gravel, trace fine sand, little silt, dense, wet						-95
							SAND: 5Y 5/3 olive, fine grained, some silt, little angular to subrounded fine gravel, trace coarse sand, trace medium sand, very dense, wet						
275									-85				
280						SMSW	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little silt, little fine angular to subrounded gravel, little coarse angular to subrounde gravel, gravel is predominantly pink granite, dense, wet			-90			
285										-95			
290							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little angular to subrounded gravel, trace fine sand, little silt, dense, wet			-100			
295										-105			
300						SM	SAND: 5Y 5/3 olive, fine grained, some silt, little angular to subrounded fine gravel, trace coarse sand, trace medium sand, very dense, wet			-110			
305										-115			
310							SILT: 5Y 5/3 olive, little fine anular to rounded gravel.			-120			

LOC ID: MW-313

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619636.73, M2: 4619636.78, M3: 4619636.83							Easting: M1: 374362.91, M2: 374362.91, M3: 374362.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
315								trace coarse angular to rounded gravel, little coarse sand, little medium sand, little fine sand, gravel is composed of multiple lithologies, very dense, wet		-125
320								SILT: 5Y 5/2 olive gray, little fine angular to rounded gravel, trace coarse angular to rounded gravel, little coarse and, little medium sand, little fine sand, gravel is composed of multiple lithologies, very dense, wet		-130
325								SILT: 5Y 5/2 olive gray, little fine angular to rounded gravel, little coarse angular to rounded gravel, little coarse sand, little medium sand, trace fine sand, very dense, wet		-135
330										-140
335										-145
340								Notes: 1. Well Depths MW-313M1: 265.92 ft (BGS) MW-313M2: 225.99 ft (BGS) MW-313M3: 205.57 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-313M1: 10.00 ft MW-313M2: 10.03 ft MW-313M3: 10.50 ft 4. Screen Intervals MW-313M1: 255.42 - 265.42 ft (BGS) MW-313M2: 215.46 - 225.49 ft (BGS) MW-313M3: 195.07 - 205.57 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 186.42 ft (MSL)	-150	
345										-155
350										-160

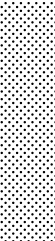
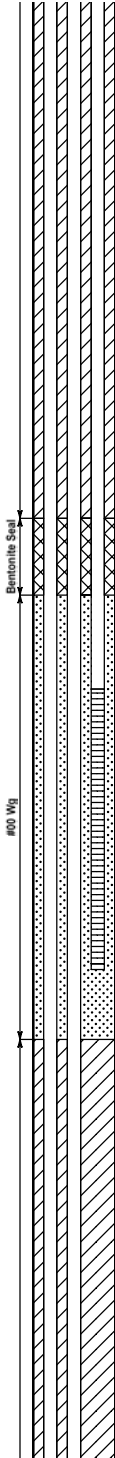
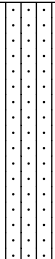
LOC ID: MW-318

[illegible]

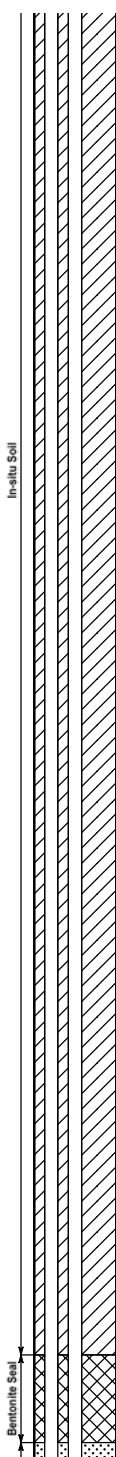
LOC ID: MW-318

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619551.60, M2: 4619551.65, S: 4619551.70							Easting: M1: 374510.27, M2: 374510.27, S: 374510.27			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45										140
50							SAND: 2.5Y 7/4 pale yellow, medium grained, trace fine sand, trace silt, loose, dry			135
55							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine subrounded gravel, trace silt, loose, dry			130
60							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, little fine sand, trace silt, loose, dry			125
65							SAND: 2.5Y 8/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace silt, loose, dry			120
70							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace silt, loose, dry			115
75							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace silt, loose, dry			110
80							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace silt, loose, dry			105
85							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace silt, loose, dry			100
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace silt, loose, dry			95
95							SAND: 2.5Y 6/4 light yellowish brown, medium grained,			90

LOC ID: MW-318

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619551.60, M2: 4619551.65, S: 4619551.70							Easting: M1: 374510.27, M2: 374510.27, S: 374510.27			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100							 some fine subangular to subrounded gravel, little coarse sand, trace fine sand, trace silt, loose, dry		85	
105							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine subangular to subrounded gravel, little coarse sand, trace fine sand, trace silt, loose, damp		80	
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine subangular gravel, trace silt, loose, damp		75	
115							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace silt, loose, damp		70	
120							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace silt, loose, damp		65	
125							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace silt, loose, damp		60	
130							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, trace silt, loose, wet		55	
135									50	
140						SM	 SAND: 2.5Y 6/6 olive yellow, fine grained, some silt, trace coarse sand, little medium sand, loose, wet		45	
145									40	

LOC ID: MW-318

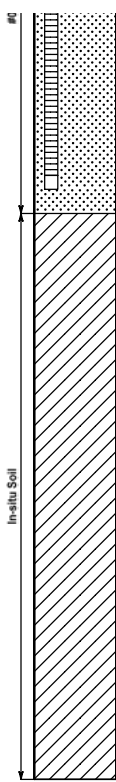
Project Name: J-2 RANGE							Location:			
Northing: M1: 4619551.60, M2: 4619551.65, S: 4619551.70							Easting: M1: 374510.27, M2: 374510.27, S: 374510.27			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150							SAND: 2.5Y 5/4 light olive brown, medium grained, some silt, little coarse sand, little fine sand, loose, wet		35	
155							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		30	
160							SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little medium sand, some silt, loose, wet		25	
165							SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, some silt, loose, wet		20	
170							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		15	
175							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		10	
180							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		5	
185							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		0	
190							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		-5	
195							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, loose, wet		-10	
200							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, little fine sand, little silt, little fine subangular to subrounded gravel, loose, wet		-15	

[illegible]

LOC ID: MW-318

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619551.60, M2: 4619551.65, S: 4619551.70							Easting: M1: 374510.27, M2: 374510.27, S: 374510.27			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										
265						SW	SAND: 2.5Y 6/6 olive yellow, coarse grained, little medium sand, trace fine sand, some fine angular to subrounded gravel, little coarse angular to subrounded gravel, trace silt, wet			-75
270						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, trace coarse angular to subrounded gravel, little silt, wet			-85
275										-90
280							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, little silt, wet			-95
285										-100
290						ML	SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, loose, wet			-105
295										-110
300							SANDY SILT: 5Y 5/3 olive, silt, little fine grained sand, trace coarse sand, medium dense, wet			-115
305						SP	SAND: 2.5Y 5/4 olive brown, coarse grained, some fine angular to subrounded gravel, little medium sand, loose, wet. Gravel contains a high percentage of black crystalline rock and a lesser amount of multi-colored clasts.			-120

LOC ID: MW-318

Project Name: J-2 RANGE							Location:		
Northing: M1: 4619551.60, M2: 4619551.65, S: 4619551.70							Easting: M1: 374510.27, M2: 374510.27, S: 374510.27		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
310						ML	SANDY SILT: 5Y 5/3 olive, silt, some fine grained sand, trace medium sand, trace coarse sand, wet		-125
315						SM	SAND: 5Y 5/3 olive, medium grained, some silt, little coarse sand, little fine sand, trace fine angular to subrounded gravel, loose, wet		-130
320						ML	SILT: 5Y 5/4 olive, silt, some clay, little fine sand, soft, wet		-135
325						GC	GRAVEL: 5Y 4/3 olive, coarse angular to subrounded gravel, some fine angular to subrounded gravel, little clay, little coarse sand, wet, gravel composed of multiple lithologies		-140
330							GRAVEL: 5Y 4/2 olive gray, coarse angular to subrounded gravel, some fine angular to subrounded gravel, little clay, little coarse sand, wet, gravel composed of multiple lithologies		-145
335							GRAVEL: 5Y 4/2 olive gray, coarse angular to subrounded gravel, some fine angular to subrounded gravel, little clay, little coarse sand, wet, gravel composed of multiple lithologies		-150
340						BR	BEDROCK: Coarse and fine gravel sized fragments of freshly fractured black and pink crystalline rock		-155
345							Notes: 1. Well Depths MW-318M1: 316.32 ft (BGS) MW-318M2: 216.33 ft (BGS) MW-318S: 131.55 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-318M1: 10.02 ft MW-318M2: 10.02 ft MW-318S: 10.02 ft 4. Screen Intervals MW-318M1: 305.79 - 315.81 ft (BGS) MW-318M2: 205.80 - 215.82 ft (BGS) MW-318S: 121.32 - 131.34 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 185.99 ft (MSL)		-160
350									-165

LOC ID: MW-319

Project Name: J-2 RANGE										Location:											
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57										Easting: M1: 374603.07, M2: 374603.07, S: 374603.07											
Drilling Contractor: D. L. Maher Co.					Elevation ft (MSL): M1: 160.69, M2: 160.69, S: 160.69 @ Top PVC																
Drilling Equipment: Dual Air Rotary					Well Depth ft (BGS): M1: 210.80, M2: 175.72, S: 102.90																
Drilling Method: Air-Rotary					BH Depth/Diam: 324.00 ft (BGS), 8.00 in.										First Water ft (BGS): 100						
Sampling Method: Stainless Steel Bailer					Start/End Date: 02/24/04 - 03/30/04										Well Diameter (in.): 2.50						
Const. Materials SCH 80 PVC					Project Number: 35AY5301										Static Water ft (BTOC): 89.55						
Logged by: G. Pierce				Reviewed by: Larry Pannell, PG				Completion: Flushmount					Date Measured: 03/30/06								
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10			USCS Class	Lithologic Description and Associated Lithographic Symbol										Well Construction Diagram	Elevation (ft msl)	
0																					
								SP		SAND: 2.5Y 4/3 olive											160
5																					155
10										SAND: 2.5Y 5/4 light olive											150
										GRAVELLY SAND: 2.5Y											
15										SAND: 2.5Y 5/3 light olive											145
										SAND: 2.5Y 5/4 light olive											140
20								GW		SANDY GRAVEL: 2.5Y											135
25								SP		SAND: 2.5Y 5/4 light olive											130
30								GP		SANDY GRAVEL: 2.5Y											125
35								SP		SAND: 2.5Y 5/4 light olive											

LOC ID: MW-319

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57							Easting: M1: 374603.07, M2: 374603.07, S: 374603.07			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40										120
45										115
50										110
55							SAND: 2.5Y 5/3 light olive			105
60							SAND: 2.5Y 6/4 light			100
65										95
70							SAND: 2.5Y 5/6 light olive			90
75										85
80							SAND: 2.5Y 6/4 light			80

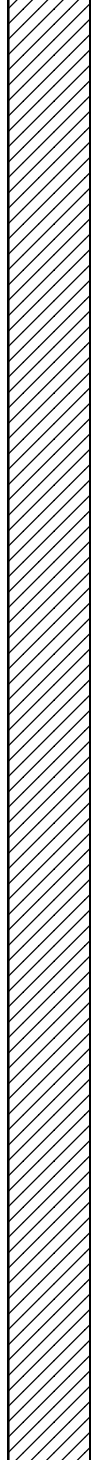
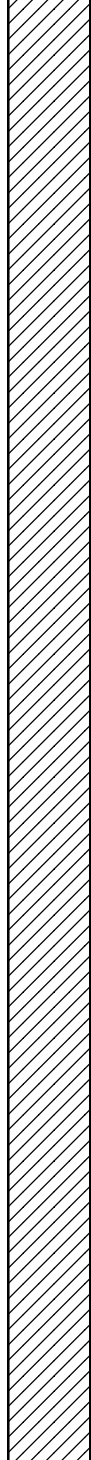
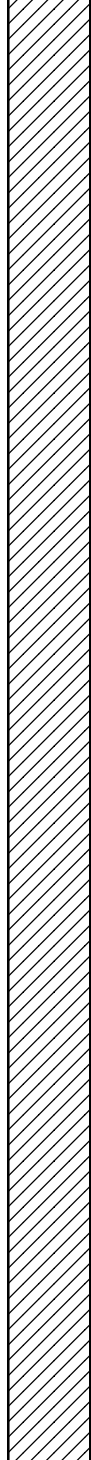
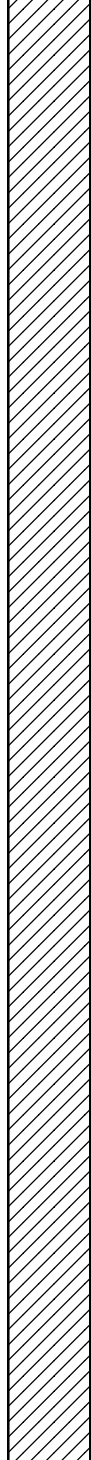
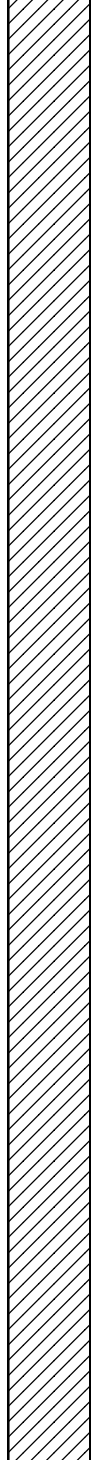
LOC ID: MW-319

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57							Easting: M1: 374603.07, M2: 374603.07, S: 374603.07		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
130							<div><div></div><div>SAND: 2.5Y 5/3 light olive</div><div>SAND: 2.5Y 5/4 light olive</div><div>SAND: 2.5Y 5/3 light olive</div><div>SAND: 2.5Y 6/3 light</div><div>SAND: 2.5Y 6/4 light</div><div>SAND: 2.5Y 5/4 light olive</div><div>SAND: 2.5Y 5/3 light olive</div></div>	<div><div>In-situ Soil</div><div>Bentonite Seal</div><div>400 Wg</div></div>	30
135						25			
140						20			
145						15			
150						10			
155						5			
160						0			
165						-5			
170						-10			

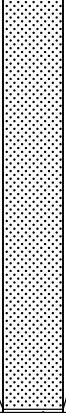
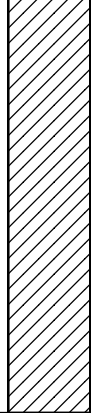
LOC ID: MW-319

Project Name: J-2 RANGE						Location:		
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57						Easting: M1: 374603.07, M2: 374603.07, S: 374603.07		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram Elevation (ft msl)
175								-15
180							SAND: 2.5Y 4/3 olive	-20
185								-25
190							SAND: 2.5Y 5/4 light olive	-30
195								-35
200							SAND: 2.5Y 4/4 olive	-40
205								-45
210							SAND: 2.5Y 5/4 light olive	-50
215								-55

LOC ID: MW-319

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57							Easting: M1: 374603.07, M2: 374603.07, S: 374603.07			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
220							SAND: 2.5Y 4/4 olive			-60
225										-65
230							SAND: 2.5Y 5/4 light olive			-70
235										-75
240							SAND: 2.5Y 5/4 light olive			-80
245										-85
250							SAND: 2.5Y 5/4 light olive			-90
255										-95
260							SAND: 2.5Y 5/4 light olive			-100
265										

LOC ID: MW-319

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617649.47, M2: 4617649.52, S: 4617649.57							Easting: M1: 374603.07, M2: 374603.07, S: 374603.07			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
315										-155
320										-160
325							Notes: 1. Well Depths MW-319M1: 210.80 ft (BGS) MW-319M2: 175.72 ft (BGS) MW-319S: 102.90 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-319M1: 10.00 ft MW-319M2: 10.00 ft MW-319S: 10.02 ft 4. Screen Intervals MW-319M1: 200.25 - 210.25 ft (BGS) MW-319M2: 165.17 - 175.17 ft (BGS) MW-319S: 92.68 - 102.70 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 160.62 ft (MSL)			-165
330										-170
335										-175

LOC ID: MW-321

Project Name: J-2 RANGE				Location:			
Northing: M1: 4617936.94, M2: 4617936.99				Easting: M1: 374264.08, M2: 374264.08			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 173.12, M2: 173.12 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 185.34, M2: 166.47				
Drilling Method: Air-Rotary			BH Depth/Diam: 312.00 ft (BGS), 8.00 in.		First Water ft (BGS): 116.5		
Sampling Method: Stainless Steel Bailer			Start/End Date: 03/10/04 - 04/06/04		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 101.79		
Logged by: G. Joyce		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 03/29/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0								SP	SAND: 2.5Y 4/3 olive brown, medium grained, little coarse sand, trace fine sand, trace to little fine subangular to rounded gravel, trace coarse rounded gravel, trace silt, loose, moist		175
5									SAND: 2.5Y 4/4 olive brown, coarse grained, little medium sand, trace fine sand, little fine subangular to rounded gravel, trace to little coarse subrounded to rounded gravel, trace silt, loose, moist		170
10									SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, trace to little coarse sand, trace silt, loose, slightly moist		165
15									SAND: 2.5Y 4/3 olive brown, coarse grained, little medium sand, trace to little sand, trace to little fine angular to rounded gravel, trace silt, loose, dry		160
20									SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, trace fine sand, trace to little fine angular to rounded gravel, trace coarse angular to rounded gravel, trace silt, loose, dry		155
25									SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, trace fine sand, trace to little fine angular to rounded gravel, trace coarse angular to rounded gravel, trace silt, loose, dry	150	
30									SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine angular to rounded gravel, trace silt, loose, dry	145	









LOC ID: MW-321

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617936.94, M2: 4617936.99							Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
35									140	
40							SAND: 2.5Y 5/3 light olive brown, coarse grained, little medium sand, trace to little fine sand, trace to little fine subangular to rounded gravel, trace silt, loose, dry		135	
45									130	
50							SAND: 2.5Y 6/3 light yellowish brown, medium grained, little fine sand, trace coarse sand, trace silt, loose, dry		125	
55									120	
60									115	
65									110	
70									105	
75							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, loose, dry		100	

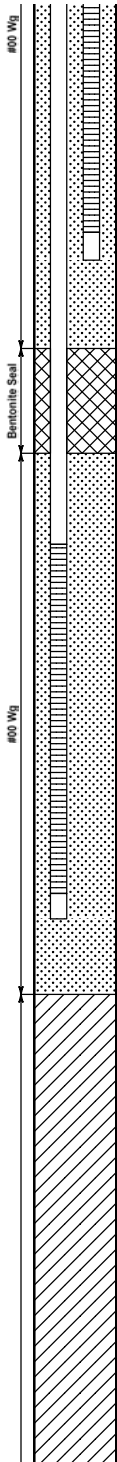


LOC ID: MW-321

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617936.94, M2: 4617936.99							Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
80									95	
85							SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, trace coarse sand, trace to little fine subangular to roudned gravel, trace silt, loose, dry		90	
90							SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, trace coarse sand, trace silt, loose, slightly moist		85	
95									80	
100									75	
105							SAND: 2.5Y 5/3 light olive brown, medium grained, trace to little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, trace silt, loose, moist		70	
110							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular to rounded gravel, trace silt, loose, wet		65	
115							SAND: 2.5Y 4/2 dark grayish brown, medium grained,		60	

Project Name: J-2 RANGE								Location:			
Northing: M1: 4617936.94, M2: 4617936.99								Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity <div>2 6 10</div>	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)		
120							trace fine sand, trace coarse sand, trace silt, loose, wet		55		
125							SAND: 2.5Y 3/3 dark olive brown, medium grained, little course sand, trace fine sand, trace silt, loose, wet		50		
130							SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse snd, trace fine sand, trace silt, loose, wet		45		
135							SAND: 2.5Y 5/3 light olive brown, medium grained, little medium sand, trace fine sand, little fine angular to rounded gravel, trace silt, loose, wet		40		
140							SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine subangular to rounded gravel, trace silt, loose, wet		35		
145									30		
150									25		
155									20		
									15		

LOC ID: MW-321

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617936.94, M2: 4617936.99							Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
160										10
165							SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, trace fine sand, trace to little fine subangular to rounded gravel, trace silt, loose, wet			5
170						GW	GRAVEL: fine angular rounded, trace coarse subangular to rounded gravel, trace to little coarse sand, trace medium sand, trace fine sand, trace silt, loose, wet			0
175						SP	SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, trace coarse sand, trace fine angular to rounded gravel, trace silt, loose, wet			-5
180							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine subrounded to rounded gravel, trace silt, loose, wet			-10
185										-15
190							SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, trace coarse sand, trace fine subangular to rounded gravel, trace silt, loose, wet		-20	
195										-25
200							SAND: 2.5Y 5/3 light olive brown, medium grained, little			

LOC ID: MW-321

Project Name: J-2 RANGE						Location:			
Northing: M1: 4617936.94, M2: 4617936.99						Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
205							fine sand, trace coarse sand, trace silt, loose, wet		-30
210							SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine angular to subrounded gravel, trace silt, loose, wet		-35
215							SAND: 2.5Y 4/3 olive brown, medium grained, little fine sand, trace coarse sand, trace silt, loose, wet		-40
220							SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine angular to subrounded gravel, trace coarse angular to subrounded gravel, trace silt, loose, wet		-45
225									-50
230							SAND: 2.5Y 5/3 light olive brown, fine grained, little medium sand, trace coarse sand, trace fine angular to subrounded gravel, trace to little silt, loose, wet		-55
235									-60
240							SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, trace coarse sand, trace to little silt, loose, wet		-65

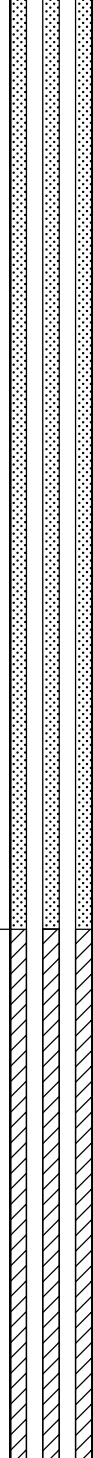
LOC ID: MW-321

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617936.94, M2: 4617936.99							Easting: M1: 374264.08, M2: 374264.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
245									<div><div></div><div>In-situ Soil</div></div>	-70
										-75
250							SAND: 2.5Y 5/3 light olive brown, fine grained, trace medium sand, trace coarse sand, trace silt, loose, wet			-80
255										-85
260						SM	SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace medium sand, trace clay, loose, wet			-90
265										-95
270							SILTY SAND: 2.5Y 4/4 olive brown, fine grained sand, trace medium sand, loose, wet			-100
275										-105
280							SILTY SAND: 2.5Y 5/3 light olive brown, fine grained sand, loose, wet			-110
285										

LOC ID: MW-322

Project Name: J-2 RANGE					Location:						
Northing: M1: 4618774.79, S: 4618774.84					Easting: M1: 374404.12, S: 374404.12						
Drilling Contractor: D. L. Maher Co.				Elevation ft (MSL): M1: 182.18, S: 182.18 @ Top PVC							
Drilling Equipment: Dual Air Rotary				Well Depth ft (BGS): M1: 256.32, S: 129.03							
Drilling Method: Air-Rotary				BH Depth/Diam: 336.16 ft (BGS), 8.00 in.			First Water ft (BGS): 100				
Sampling Method: Stainless Steel Bailer				Start/End Date: 03/11/04 - 04/07/04			Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC				Project Number: 35AY5301			Static Water ft (BTOC): 109.20				
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 09/27/06			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
0					20 45 70 2 6 10						185
						SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little fine subrounded gravel, little silt, loose, dry				180
5						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace silt, loose, dry				175
10							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace silt, loose, dry				170
15											165
20						SPSM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little silt, loose, dry				160
25											155
30							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little silt, loose, dry				150
35											

LOC ID: MW-322

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618774.79, S: 4618774.84							Easting: M1: 374404.12, S: 374404.12			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40						SP				145
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine subangular gravel, trace fine sand, trace silt, loose, dry			
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, trace coarse sand, trace silt, loose, dry			
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace silt, loose, dry			
45									140	
50									135	
55									130	
60									125	
65									120	
70									115	
75									110	
80									105	
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, little fine sand, trace silt, loose, dry			

LOC ID: MW-322

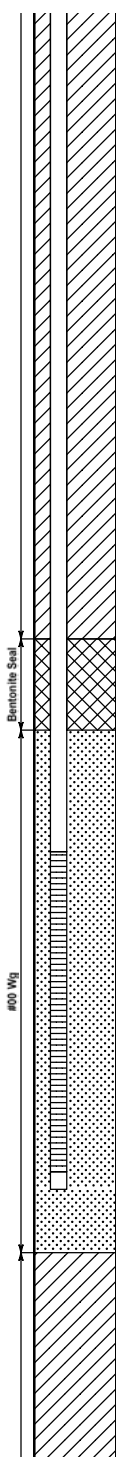
[illegible]

LOC ID: MW-322

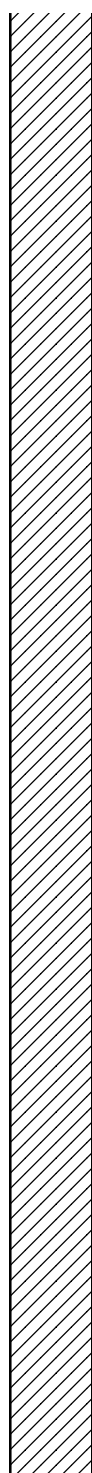
Project Name: J-2 RANGE							Location:		
Northing: M1: 4618774.79, S: 4618774.84							Easting: M1: 374404.12, S: 374404.12		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
130									
135									
140						SM			
145									
150									
155									
160									
165									
170									

[illegible]

LOC ID: MW-322

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618774.79, S: 4618774.84							Easting: M1: 374404.12, S: 374404.12			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
220							SAND: 10YR 6/8 brownish yellow, medium grained, little coarse sand, little fine sand, little silt, loose, wet			-40
225										-45
230							SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, medium dense, wet			-50
235										-55
240						SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, trace coarse angular to subrounded gravel, dense, wet			-60
245										-65
250						SM	SAND: 10YR 5/8 yellowish brown, medium grained, some fine sand, trace coarse sand, little silt, loose, wet			-70
255										-75
260										-80
265										

LOC ID: MW-322

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618774.79, S: 4618774.84							Easting: M1: 374404.12, S: 374404.12			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
270						SPSM	SAND: 10YR 5/8 yellowish brown, medium grained, little coarse sand, little fine sand, little fine gravel, trace to little silt, medium dense, wet		-85	
275									-90	
280						SM	SAND: 10YR 5/8 yellowish brown, medium grained, some fine sand, little silt, loose, wet		-95	
285									-100	
290							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine sand, trace coarse sand, little silt, loose, wet		-105	
295								-110		
300							SAND: 2.5Y 6/6 olive yellow, fine grained sand, little medium sand, little silt, loose, wet	-115		
305								-120		
310							SAND: 2.5Y 6/4 light yellowish brown, fine grained,	-125		

[illegible]

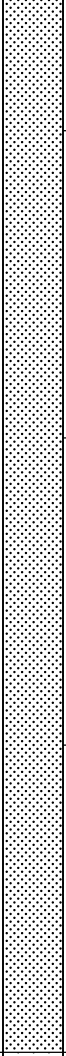
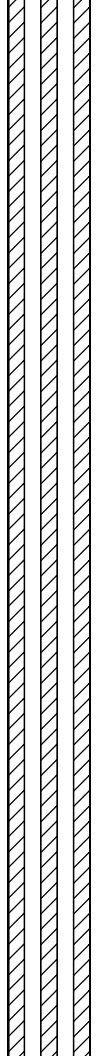
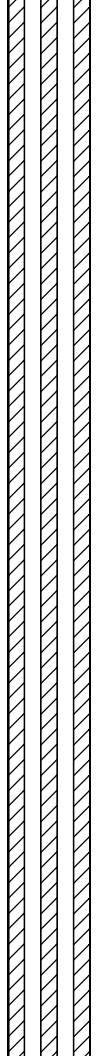
LOC ID: MW-324

Project Name: J-2 RANGE										Location:									
Northing: M1: 4618275.68, M2: 4618275.73										Easting: M1: 374840.08, M2: 374840.08									
Drilling Contractor: D. L. Maher Co.										Elevation ft (MSL): M1: 174.05, M2: 174.05 @ Top PVC									
Drilling Equipment: Dual Air Rotary										Well Depth ft (BGS): M1: 245.55, M2: 215.44									
Drilling Method: Air-Rotary										BH Depth/Diam: 349.12 ft (BGS), 8.00 in.					First Water ft (BGS): 110				
Sampling Method: Stainless Steel Bailer										Start/End Date: 03/24/04 - 04/15/04					Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC										Project Number: 35AY5301					Static Water ft (BTOC): 103.18				
Logged by: L. Baerga					Reviewed by: Larry Pannell, PG					Completion: Flushmount									
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)							
					20	45	70												
0								SP		SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, some fine angular to subrounded gravel, trace silt, loose, dry		175							
5								SPSM		SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, little angular to subrounded gravel, little silt, loose, dry		170							
10								SP		SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine angular to subrounded gravel, loose, dry		165							
15										SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine angular to subrounded gravel, loose, dry		160							
20												155							
25												150							
30												145							
35										SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace silt, loose, dry		140							

LOC ID: MW-324

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618275.68, M2: 4618275.73							Easting: M1: 374840.08, M2: 374840.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40										135
45							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace silt, loose, dry			130
50							SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, loose, dry			125
55							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine subangular to subrounded gravel, loose, dry			120
60							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine subangular to subrounded gravel, loose, dry			115
65							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, loose, dry			110
70							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, loose, dry			105
75							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, loose, dry			100
80							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, loose, dry			95
85							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, loose, dry			90

LOC ID: MW-324

Project Name: J-2 RANGE						Location:				
Northing: M1: 4618275.68, M2: 4618275.73						Easting: M1: 374840.08, M2: 374840.08				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
90										85
95										80
100										75
105							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, loose, dry			70
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace silt, loose, damp			65
115										60
120						SW	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, trace silt, loose, damp to wet			55
125										50
130						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, little coarse sand, little medium sand, little silt, loose, wet			45


LOC ID: MW-324

Project Name: J-2 RANGE							Location:				
Northing: M1: 4618275.68, M2: 4618275.73							Easting: M1: 374840.08, M2: 374840.08				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
135											40
140						SPSM		SAND: 2.5Y 5/4 light olive brown, coarse sand, little medium sand, littel fine sand, little fine angular to subrounded gravel, trace to little silt, loose, wet			35
145											30
150						SM		SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, medium dense, wet			25
155											20
160								SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, little silt, medium dense, wet			15
165											10
170											5
175								SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, little fine sand, little silt, medium dense, wet			0
180						SW		SAND: 2.5Y 5/4 light olive brown, medium grained, little			-5

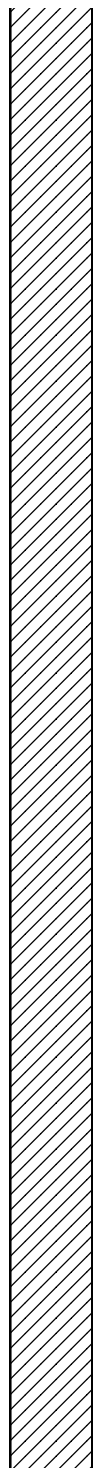
LOC ID: MW-324

Project Name: J-2 RANGE						Location:			
Northing: M1: 4618275.68, M2: 4618275.73						Easting: M1: 374840.08, M2: 374840.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
185							coarse sand, trace fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, dense, wet		-10
190							GRAVELLY SAND: 2.5Y 5/4 light olive brown, coarse grained sand, little medium sand, trace fine sand, some fine angular to subrounded gravel, little coarse angular to subrounded gravel, trace silt, dense, wet		-15
195							GRAVELLY SAND: 2.5Y 5/4 light olive brown, coarse grained sand, little medium sand, trace fine sand, some coarse angular to subrounded gravel, little coarse angular to subrounded gravel, trace silt, dense, wet		-20
200							GRAVELLY SAND: 2.5Y 5/4 light olive brown, coarse grained sand, some medium sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, dense, wet		-25
205									-30
210									-35
215									-40
220						CL	CLAY: 5Y 4/1 dark gray, stiff, dry		-45
225						SM	SAND: 2.5Y 4/2 dark grayish brown, fine grained, trace coarse sand, little medium sand, some silt, dense, wet		-50

LOC ID: MW-324

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618275.68, M2: 4618275.73							Easting: M1: 374840.08, M2: 374840.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
230										-55
235							SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace coarse angular gravel, trace fine angular gravel, little silt, dense, wet			-60
240							SAND: 2.5Y 6/6 olive yellow, medium grained, trace coarse sand, some fine sand, little silt, medium dense, wet			-65
245										-70
250						SP	SAND: 2.5Y 6/6 olive yellow, fine grained, trace coarse sand, little medium sand, trace fine angular gravel, loose, wet			-75
255										-80
260						SM	SAND: 2.5Y 5/6 light olive brown, fine grained, trace medium sand, some silt, loose, wet			-85
265										-90
270						ML	SILT: 2.5Y 5/6 light olive brown, silt, trace fine grained sand, little clay, medium stiff, wet			-95
275										-100

LOC ID: MW-324

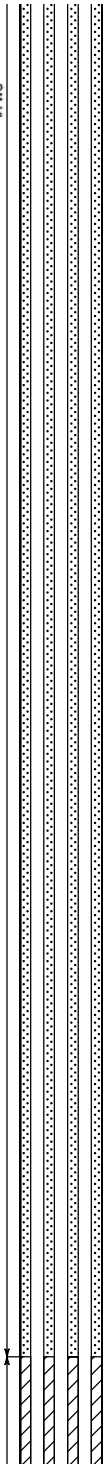
Project Name: J-2 RANGE							Location:			
Northing: M1: 4618275.68, M2: 4618275.73							Easting: M1: 374840.08, M2: 374840.08			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
280						SM	SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, some silt, loose, wet		-105	
285						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, loose, wet		-110	
290						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, loose, wet		-115	
295						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, little silt, loose, wet		-120	
300						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, little silt, loose, wet		-125	
305						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, little silt, loose, wet	-130		
310						SM	SAND: 2.5Y 5/3 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, trace fine angular to subrounded gravel, medium dense, wet	-135		
315						SM	SAND: 2.5Y 5/3 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, trace fine angular to subrounded gravel, medium dense, wet	-140		
320						SC	SAND: 5Y 5/2 olive gray, fine grained, some clay, little silt, trace fine angular gravel, medium dense, wet	-145		
						SC	SAND: 5Y 5/2 olive gray, fine grained, some clay, little silt, trace fine angular gravel, medium dense, wet	-150		

[illegible]

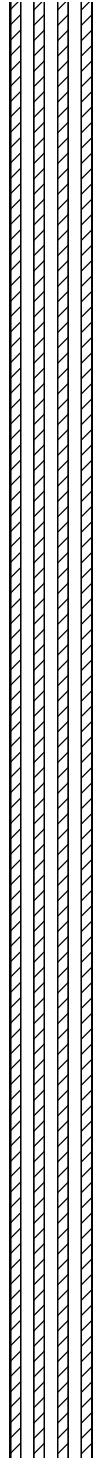
LOC ID: MW-327

Project Name: J-2 RANGE				Location:			
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16				Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 174.67, M2: 174.67, M3: 174.67 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 306.58, M2: 275.66, M3: 230.37				
Drilling Method: Air-Rotary			BH Depth/Diam: 338.06 ft (BGS), 8.00 in.		First Water ft (BGS): 90		
Sampling Method: Stainless Steel Bailer			Start/End Date: 04/08/04 - 05/05/04		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 108.09		
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 09/14/06	

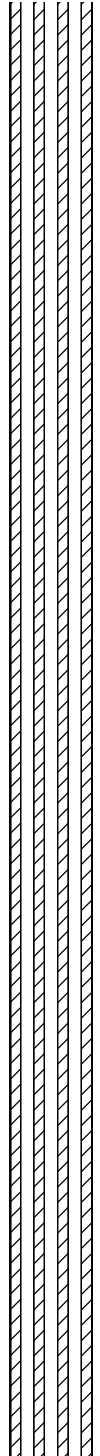
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					CPS Conductivity						
					2	6	10				
0								SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little silt, loose, dry		175
5											170
10								SP	SAND: 10YR 5/6 yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace silt, loose, dry		165
15											160
20									SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, trace silt, loose, dry	155	
25										150	
30									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, loose, dry	145	

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
35								<div>#1 WG</div> 	140
40							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, some fine sand, little fine angular to subrounded gravel, loose, dry		135
45									130
50							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, loose, dry		125
55									120
60							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, trace coarse angular gravel, trace fine angular to subrounded gravel, loose, dry		115
65									110
70									105
75							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subrounded gravel, loose, dry		100

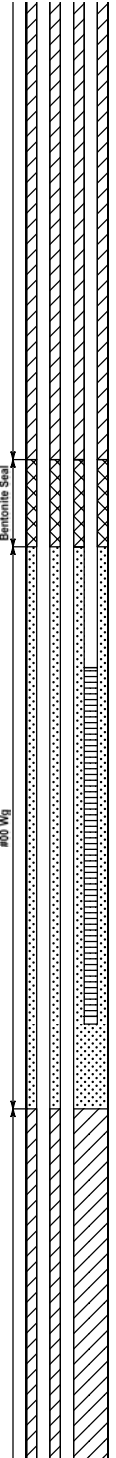
LOC ID: MW-327

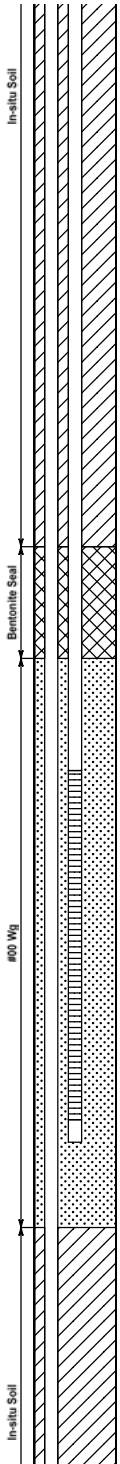
Project Name: J-2 RANGE							Location:			
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
120										55
125										50
130						SM				45
135										40
140										35
145									30	
150						SP			25	
155									20	

LOC ID: MW-327

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
160										15
165										10
170						SM	SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, some fine sand, little silt, medium dense, wet			5
175										0
180						SW	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little silt, medium dense, wet			-5
185										-10
190						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, little silt, medium dense, wet			-15
195										-20
200						SP	SAND: 2.5Y 6/3 light yellowish brown, coarse grained, some fine subangular to subrounded gravel, little medium sand, dense, wet		-25	
						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace			

LOC ID: MW-327

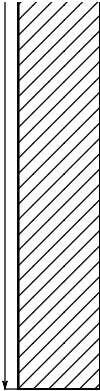
Project Name: J-2 RANGE							Location:			
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205								coarse sand, little medium sand, little silt, loose, wet		-30
210						ML		SANDY SILT: 2.5Y 5/4 light olive brown, trace coarse grained sand, trace medium sand, some fine sand, loose, wet		-35
215						SM		SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little silt, loose, wet		-40
220						SP		SAND: 2.5Y 6/6 olive yellow, coarse grained, some fine angular to subrounded gravel, little medium sand, dense, wet		-45
225								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, dense, wet		-50
230						SM		SAND: 2.5Y 6/4 light yellowish brown, coarse grained, little medium sand, little fine sand, little fine angular to subrounded gravel, little silt, dense, wet		-55
235						ML		SANDY SILT: 2.5Y 5/4 light olive brown, trace coarse grained sand, trace medium sand, some fine sand, little fine angular to subrounded gravel, dense, wet		-60
240								SANDY SILT: 2.5Y 6/4 light yellowish brown, silt, trace coarse grained sand, trace medium sand, some fine sand, little fine angular to subrounded gravel, dense, wet	-65	

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
245									-70
250							SANDY SILT: 2.5Y 6/4 light yellowish brown, trace coarse sand, trace medium sand, some fine sand, dense, wet		-75
255									-80
260						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, some silt, dense, wet		-85
265							SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, little medium sand, little silt, medium dense, wet		-90
270							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, some fine sand, little silt, medium dense, wet	#00 Wg	-95
275						ML	SANDY SILT: 2.5Y 5/4 light olive brown, trace coarse grained sand, trace medium sand, some fine sand, medium dense, wet		-100
280									-105
285								In-situ Soil	-110

LOC ID: MW-327

Project Name: J-2 RANGE						Location:					
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16						Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram Elevation (ft msl)
290						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, medium dense, wet				-115
295											-120
300							SAND: 5Y 5/3 olive, fine grained, some silt, medium dense, wet, micaceous with muscovite or phlogopite				-125
305											-130
310							SAND: 5Y 4/2 olive gray, fine grained, some silt, medium dense, wet, micaceous with muscovite or phlogopite				-135
315											-140
320							SAND: 5Y 5/3 olive, fine grained, trace coarse sand, some silt, medium dense, wet				-145
325											-150

LOC ID: MW-327

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620275.06, M2: 4620275.11, M3: 4620275.16							Easting: M1: 374577.99, M2: 374577.99, M3: 374577.99			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
330							SAND: 5Y 5/3 olive, fine grained, trace coarse sand, trace medium sand, little fine angular to subrounded to subrounded gravel, some silt, medium dense, wet			-155
335							SAND: 5Y 5/3 olive, fine grained, trace coarse sand, little medium sand, little fine angular to subrounded gravel, some silt, dense, wet			-160
340						BR	BEDROCK: crystalline green-black in color			-165
345							Notes: 1. Well Depths MW-327M1: 306.58 ft (BGS) MW-327M2: 275.66 ft (BGS) MW-327M3: 230.37 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-327M1: 9.98 ft MW-327M2: 10.00 ft MW-327M3: 9.99 ft 4. Screen Intervals MW-327M1: 296.06 - 306.04 ft (BGS) MW-327M2: 265.01 - 275.01 ft (BGS) MW-327M3: 220.16 - 230.15 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 174.97 ft (MSL)			-170
350										-175

LOC ID: MW-330

Project Name: J-2 RANGE				Location:			
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63				Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 187.42, M2: 187.42, M3: 187.42 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 323.46, M2: 248.57, M3: 165.20				
Drilling Method: Air-Rotary			BH Depth/Diam: 335.50 ft (BGS), 8.00 in.		First Water ft (BGS): 133		
Sampling Method: Stainless Steel Bailer			Start/End Date: 04/21/04 - 05/17/04		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 129.65		
Logged by: G. Pierce		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 02/15/05	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0									OL	ORGANIC SILT: 10YR 4/4 dark yellowish brown, little fine angular to subrounded gravel, trace coarse sand, loose, damp (loam)	190
5									ML	SANDY SILT: 10YR 5/6 yellowish brown, some fine grained sand, little coarse sand, trace medium sand, trace fine angular to subrounded gravel, loose, dry	185
10									SP	SAND: 10YR 5/6 yellowish brown, medium grained, some coarse sand, trace fine sand, little fine angular to subrounded gravel, loose, dry	180
15										SAND: 10YR 5/6 yellowish brown, fine grained, little coarse sand, trace medium sand, trace fine angular to subrounded gravel, loose, dry	175
20										SAND: 2.5Y 5/6 light olive brown, medium grained, some coarse sand, trace fine sand, trace fine angular to subrounded gravel, loose, dry	170
25										SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace fine angular to subrounded gravel, loose, dry	165
30										SAND: 2.5Y 7/4 pale yellow, medium grained, little fine sand, trace coarse sand, loose, dry	160
35										SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, loose, dry	155

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63							Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
40									150
45							SAND: 2.5Y 7/4 pale yellow, medium grained, some coarse sand, little fine sand, little fine angular to subrounded gravel, loose, dry		145
50							SAND: 2.5Y 6/4 light yellowish brown, medium grained, loose coarse sand, little fine sand, trace fine angular to subrounded gravel, loose, dry		140
55							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine angular to subangular gravel, loose, dry		135
60									130
65									125
70							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, some fine subangular gravel, little coarse sand, trace fine sand, medium dense, dry		120
75									115
80							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine sand, angular to subangular gravel, loose, dry		110

LOC ID: MW-330

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63							Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
85									105
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, loose, dry		100
95							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine subangular to subrounded gravel, medium dense, dry		95
100									90
105									85
110							SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, damp		80
115							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine subangular to subrounded gravel, little coarse sand, trace fine sand, medium dense, damp		75
120							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, medium dense, damp		70
125									65
									60

SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, loose, dry

SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine subangular to subrounded gravel, medium dense, dry

SAND: 2.5Y 6/6 olive yellow, medium grained, some coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, damp

SAND: 2.5Y 6/6 olive yellow, medium grained, some fine subangular to subrounded gravel, little coarse sand, trace fine sand, medium dense, damp

SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, medium dense, damp

In-situ Soil

LOC ID: MW-330

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63							Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
130									
135									
140									
145						SM	SAND: 2.5Y 4/4 olive brown, fine grained, little coarse sand, trace medium sand, some silt, little fine angular to subrounded gravel, dense, wet		
150							SAND: 2.5Y 4/4 olive brown, medium grained, little coarse sand, little fine sand, little silt, trace fine angular to subrounded gravel, medium dense, wet		
155									
160									
165									
170							SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, little medium sand, trace coarse sand, medium dense, wet		

LOC ID: MW-330

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63							Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
175										10
180							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little silt, trace fine angular to subangular gravel, medium dense, wet			5
185							SAND: 2.5Y 5/4 light olive brown, medium grained, little silt, little fine sand, trace coarse sand, trace fine angular to subangular gravel, trace coarse angular to subangular gravel, dense, wet			0
190						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, medium dense, wet			-5
195							SAND: 2.5Y 5/4 light olive brown, coarse sand grained, little medium sand, trace fine sand, trace fine subangular to subrounded gravel, medium dense, wet			-10
200						SM	SAND: 2.5Y 4/4 olive brown, medium grained, trace coarse sand, some fine sand, little silt, medium dense, wet			-15
205							SAND: 2.5Y 4/4 olive brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subangular gravel, trace fine angular to subangular gravel, little silt, medium dense, wet			-20
210						SP	SAND: 2.5Y 4/3 olive brown, medium grained, little coarse sand, little fine sand, angular to subrounded gravel, wet			-25
215							SAND: 2.5Y 4/4 olive brown, medium grained, little coarse sand, little fine sand, angular to subrounded gravel, wet			-30

LOC ID: MW-330

Project Name: J-2 RANGE							Location:				
Northing: M1: 4620645.53, M2: 4620645.58, M3: 4620645.63							Easting: M1: 374746.43, M2: 374746.43, M3: 374746.43				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
270											-80
275							SAND: 2.5Y 4/3 olive brown, medium grained, little fine sand, angular to subrounded gravel, little silt, wet				-85
280							SAND: 2.5Y 4/4 olive brown, medium grained, little fine sand, angular to subrounded gravel, little silt, wet				-90
285						SP	SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, angular to subrounded gravel, wet				-95
290							SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, subangular to rounded gravel, wet				-100
295						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, subangular to rounded gravel, little silt, wet				-105
300							SAND: 2.5Y 4/4 olive brown, medium grained, trace fine angular to rounded gravel, little silt, wet				-110
305							SAND: 2.5Y 4/3 olive brown, medium grained, trace fine angular to rounded gravel, little silt, wet				-115
310							SAND: 2.5Y 5/4 light olive brown, medium grained,				-120

LOC ID: MW-331

Project Name: J-2 RANGE					Location:				
Northing: M1: 4619075.40, M2: 4619075.45					Easting: M1: 373818.49, M2: 373818.49				
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 180.38, M2: 180.38 @ Top PVC						
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 245.72, M2: 205.58						
Drilling Method: Air-Rotary			BH Depth/Diam: 345.08 ft (BGS), 8.00 in.			First Water ft (BGS): 124			
Sampling Method: Stainless Steel Bailer			Start/End Date: 05/11/04 - 06/14/04			Well Diameter (in.): 2.50			
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 107.60			
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 09/19/06			

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
					20	45	70					
					Conductivity							
					2	6	10					
0								OL	ORGANIC SILT: 5Y 4/4 dark yellowish brown, little coarse grained sand, little medium sand, trace coarse angular gravel, little fine angular gravel, loose, dry		180	
5								SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, some fine angular gravel, loose, dry		175	
10											170	
15									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine angular to subrounded gravel, loose, dry		165	
20									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, loose, damp		160	
25											155	
30								SM	SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, little fine sand, little silt, loose, damp		150	
35									SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, little fine sand, little silt, loose, dry		145	

LOC ID: MW-331

Project Name: J-2 RANGE							Location:				
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
40						SP				140	
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, some fine subangular to subrounded gravel, loose, dry				
45							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, loose, dry				135
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine subangular to subrounded gravel, loose, dry				
50							SAND: 25.Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, loose, dry				130
							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, dry				
55							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, dry				125
							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, dry				120
60											
65										115	
70										110	
							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, dry				
75										105	
							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, loose, dry			100	
80											
85										95	

LOC ID: MW-331

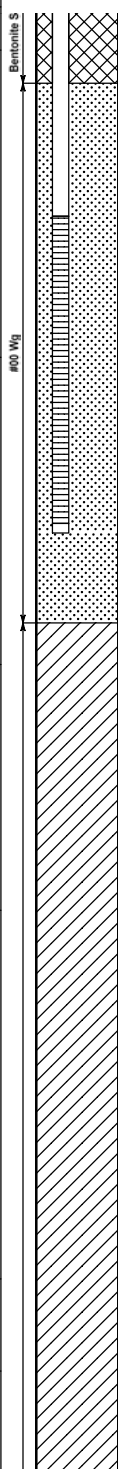
Project Name: J-2 RANGE							Location:			
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
90								SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, dry		90
95								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, loose, dry		85
100								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, loose, damp		80
105								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine subangular to subrounded gravel, loose, damp		75
110								SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, trace fine angular to subrounded gravel, loose, damp		70
115								SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, little silt, loose, wet		65
120								SAND: 2.5Y 5/6 light olive brown, medium grained, some coarse sand, trace fine sand, little silt, medium dense, wet		60
125										55
130										50

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
135						SM	<div><div></div><div>SAND: 2.5Y 5/6 light olive brown, medium grained, little fine sand, trace coarse sand, some silt, medium dense, wet</div></div>	<div><div></div><div></div><div></div><div></div></div>	45	
140							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, little silt, loose, wet</div></div>		40	
145									35	
150							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, little silt, medium dense, wet</div></div>		30	
155									25	
160							<div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, little silt, medium dense, wet</div></div>		20	
165									15	
170							<div><div></div><div>SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, little medium sand, trace fine angular to subrounded gravel, medium dense, wet</div></div>		10	
175									5	
180							<div><div></div><div>SILTY SAND: 2.5Y 5/4 light olive brown, fine grained</div></div>		0	

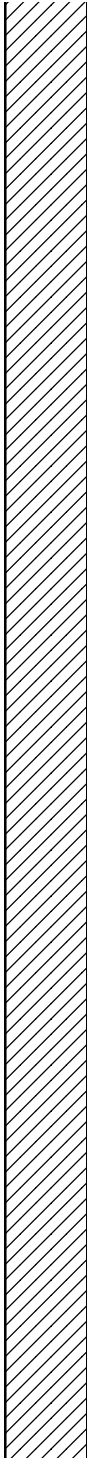
LOC ID: MW-331

Project Name: J-2 RANGE							Location:		
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
185							sand, trace coarse sand, little medium sand, trace fine angular to subrounded gravel, medium dense, wet		-5
190							SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, little coarse sand, little medium sand, medium dense, wet		-10
195						SP	SAND: 2.5Y 5/4 light olive brown, coarse grained, little medium sand, little fine angular to subrounded gravel, trace silt, dense, wet. Gravel composed of multiple lithologies and colors		-15
200							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, medium dense, wet		-20
205							SAND: 2.5Y 6/3 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine angular to subrounded gravel, dense, wet		-25
210									-30
215									-35
220						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, little medium sand, little silt, loose, wet		-40
225							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, trace fine sand, little silt, medium dense, wet		-45

LOC ID: MW-331

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
230										-50
235							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, little fine sand, little silt, medium dense, wet			-55
240							SAND: 2.5Y 5/4 olive, medium grained, little coarse sand, some fine sand, trace fine angular to subrounded gravel, little silt, medium dense, wet			-60
245										-65
250						SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine angular gravel, trace silt, medium dense, wet			-70
255										-75
260							SAND: 10YR 5/8 yellowish brown, medium grained, little coarse sand, trace fine angular to subangular gravel, trace silt, medium dense, wet			-80
265									-85	
270							SAND: 10YR 5/8 yellowish brown, medium grained, some coarse sand, trace silt, medium dense, wet		-90	
275						SM	SAND: 10YR 5/6 yellowish brown, fine grained, trace coarse sand, little medium sand, little silt, medium dense, wet		-95	

LOC ID: MW-331

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
280									<div>In-situ Soil</div> 	-100
285										-105
290							SAND: 10YR 5/8 yellowish brown, fine grained, little medium sand, some silt, medium dense, wet			-110
295							SAND: 2.5Y 5/6 yellowish brown, fine grained, little medium sand, some silt, medium dense, wet			-115
300							SAND: 2.5Y 5/6 light olive brown, fine grained, little coarse sand, little medium sand, some silt, medium dense, wet			-120
305							SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, some silt, medium dense, wet			-125
310							SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, some silt, medium dense, wet			-130
315							SAND: 2.5Y 5/6 light olive brown, fine grained, some silt, dense, wet		-135	
320							SAND: 2.5Y 5/3 light olive brown, fine grained, little coarse sand, little fine angular gravel, some silt, dense, wet		-140	

LOC ID: MW-331

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619075.40, M2: 4619075.45							Easting: M1: 373818.49, M2: 373818.49			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
325										-145
330						SP	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little coarse sand, little medium sand, medium dense, wet			-150
335						GP	GRAVEL: multi-colored fine angular gravel, little coarse angular gravel, dense, wet. Gravel composed of multiple lithologies			-155
340						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little black angular coarse gravel, dense, wet			-160
345						GP	GRAVEL: multi-colored fine angular gravel, dense, wet. Gravel composed of multiple lithologies			-165
						BR	BEDROCK: granitic rock, black			-165
350							Notes: 1. Well Depths MW-331M1: 245.72 ft (BGS) MW-331M2: 205.58 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-331M1: 10.00 ft MW-331M2: 10.00 ft 4. Screen Intervals MW-331M1: 235.41 - 245.41 ft (BGS) MW-331M2: 195.27 - 205.27 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 180.22 ft (MSL)			-170
355							Printed on 01/10/07			-175

LOC ID: MW-334

Project Name: J-2 RANGE				Location:			
Northing: M1: 4618476.59, M2: 4618476.64				Easting: M1: 375235.94, M2: 375235.94			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 172.39, M2: 172.39 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 295.24, M2: 175.52				
Drilling Method: Air-Rotary			BH Depth/Diam: 325.50 ft (BGS), 8.00 in.			First Water ft (BGS): 103	
Sampling Method: Stainless Steel Bailer			Start/End Date: 05/21/04 - 06/03/04			Well Diameter (in.): 2.50	
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 102.00	
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 04/04/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0											175
								OL	ORGANIC SILT: 10YR 4/4 dark yellowish brown, some medium grained sand, little fine sand, little fine angular gravel, dry		170
5								SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little fine angular to subrounded gravel, dry		165
10									SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, dry		160
15									SAND: 10YR 6/6 brownish yellow, medium grained, little coarse sand, trace fine sand, dry		155
20								SW	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, trace coarse angular to subangular gravel, some fine angular to subangular gravel, dry		150
25											145
30									GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, trace coarse angular to subangular gravel, some fine angular to subangular gravel, dry		140
35											135
40								GP	GRAVEL: 2.5Y 5/4 light olive brown, fine angular to subangular gravel, little coarse sand, little medium sand, trace fine sand, dry		130

LOC ID: MW-334

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45						SP	<div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, dry</div></div>	<div><div></div><div></div><div></div></div>	125	
						SW	<div><div></div><div>SAND: 10YR 4/3 brown, medium grained, little coarse sand, little fine sand, some fine angular to subangular gravel, dry</div></div>			
50						SP	<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, little fine angular to subrounded gravel, dry</div></div>		120	
55							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subrounded gravel, dry</div></div>		115	
60									110	
65							<div><div></div><div>SAND; 2.5Y 6/4 light yellowish brown, coarse grained, little medium sand, trace fine sand, some fine angular to subrounded gravel, dry</div></div>		105	
70							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, dry</div></div>		100	
75							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, dry</div></div>		95	
80							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, dry</div></div>		90	
85									85	
90							<div><div></div><div>SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, dry</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, dry</div></div>		80	
95							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine subangular to subrounded gravel, dry</div></div>			

LOC ID: MW-334

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100										75
105							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine subangular to subrounded gravel, damp			70
110							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, little fine subangular to subrounded gravel, damp			65
115							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, little coarse angular to subrounded gravel, little fine subangular to subrounded gravel, damp			60
120							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, little coarse angular to subrounded gravel, little fine subangular to subrounded gravel, damp			55
125						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace fine angular to subrounded gravel, some silt, wet			50
130							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, trace fine subangular to subrounded gravel, some silt, wet			45
135										40
140										35
145							SAND: 2.5Y 5/4 light olvie brown, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, some silt, wet			30
										25

LOC ID: MW-334

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
150									
155						SP	SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, wet		20
160						SPSM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, trace to little silt, wet		15
165									10
170						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, some fine angular to subrounded gravel, little silt, wet		5
175									0
180						SP	SAND: 2.5Y 7/3 pale yellow, medium grained, some coarse sand, trace fine angular to subrounded gravel, wet		-5
185									-10
190						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, some fine sand, little silt, wet		-15
195									-20
200							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, little silt, wet		-25
									-30

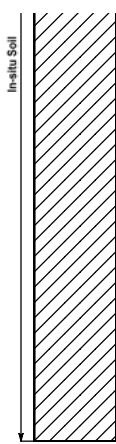
LOC ID: MW-334

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
205									-35
210							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, some fine sand, little silt, wet		-40
215									-45
220									-50
225									-55
230									-60
235									-65
240							SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, little silt, wet		-70
245							SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, trace medium sand, some silt, wet		-75
250									-80
255							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little silt, wet		

LOC ID: MW-334

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-85
265										-90
270										-95
275										-100
280										-105
285										-110
290							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little fine angular to subrounded gravel, little silt, wet			-115
295							SAND: 2.5Y 5/6 light olive brown, medium grained, some coarse sand, little fine sand, little fine angular to subrounded gravel, little silt, wet			-120
300						SWSM	GRAVELLY SAND: 2.5Y 5/6 light olive brown, medium grained sand, little coarse sand, trace fine sand, little coarse angular to subangular gravel, some fine angular to subrounded gravel, little silt, wet			-125
305							SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, little fine sand, some coarse angular to subangular gravel, little silt, wet			-130
										-135

LOC ID: MW-334

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618476.59, M2: 4618476.64							Easting: M1: 375235.94, M2: 375235.94			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										-140
315								GRAVELLY SAND: 10YR 6/8 brownish yellow, coarse grained sand, little medium sand, trace fine sand, some coarse angular to subrounded gravel, little fine angular to subrounded gravel, little silt, wet		-145
320						GP		GRAVELLY SAND: 2.5Y 4/4 olive brown, medium grained sand, little coarse sand, trace fine sand, trace coarse angular to subrounded gravel, some fine angular to subrounded gravel, little silt, little clay, wet		-150
325						BR		GRAVEL: multi-colored fine angular to subrounded gravel, little coarse angular to subrounded gravel, wet		-155
330								BEDROCK: Predominantly black fine angular gravel, little coarse angular gravel, wet. Gravel exhibits crystalline texture		-160
335								Notes: 1. Well Depths MW-334M1: 295.24 ft (BGS) MW-334M2: 175.52 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-334M1: 10.00 ft MW-334M2: 10.00 ft 4. Screen Intervals MW-334M1: 285.00 - 295.00 ft (BGS) MW-334M2: 165.00 - 175.00 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 172.49 ft (MSL)	-165	
340										

Printed on 01/10/07

LOC ID: MW-335

[illegible]

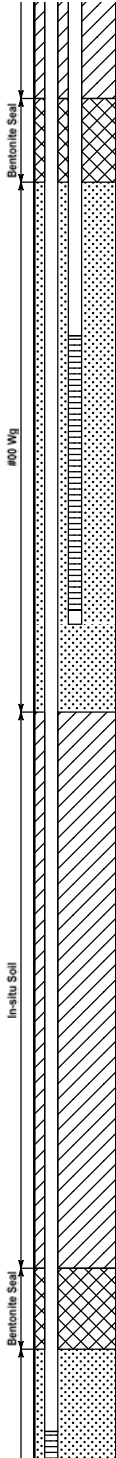
LOC ID: MW-335

Project Name: J-2 RANGE							Location: J-2 RANGE, WOOD ROAD			
Northing: M1: 4618476.24, M2: 4618476.29, M3: 4618476.34							Easting: M1: 374680.98, M2: 374680.98, M3: 374680.98			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100							<div><div></div><div>SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, dry</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, dry</div></div> <div><div></div><div>SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, trace fine subangular to well rounded gravel, damp</div></div> <div><div></div><div>SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse sand, trace fine to coarse angular to subrounded gravel, damp</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, damp</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, wet</div></div> <div><div></div><div>SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, wet</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, wet</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, wet</div></div> <div><div></div><div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, wet</div></div>	<div><div>In-situ Sc</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>		

LOC ID: MW-335

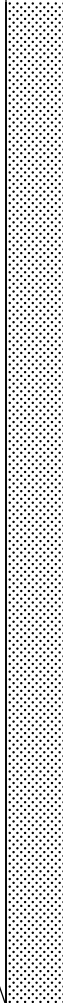
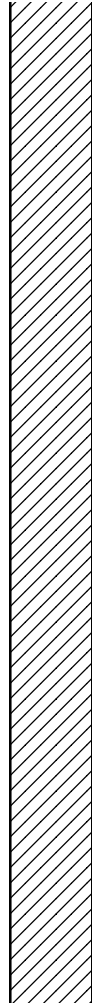
Project Name: J-2 RANGE							Location: J-2 RANGE, WOOD ROAD			
Northing: M1: 4618476.24, M2: 4618476.29, M3: 4618476.34							Easting: M1: 374680.98, M2: 374680.98, M3: 374680.98			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150										25
155							SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, wet			20
160							SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, wet			15
165							SAND: 2.5Y 4/4 olive brown, medium grained, trace coarse sand, trace fine sand, wet			10
170							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			5
175							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, wet			0
180							SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, wet			-5
185										-10
190							SAND: 2.5Y 4/3 olive brown, medium grained, little fine sand, wet			-15
195										-20
200							SAND: 2.5Y 4/3 olive brown, medium grained, wet			-25

LOC ID: MW-335

Project Name: J-2 RANGE						Location: J-2 RANGE, WOOD ROAD					
Northing: M1: 4618476.24, M2: 4618476.29, M3: 4618476.34						Easting: M1: 374680.98, M2: 374680.98, M3: 374680.98					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
205								SAND: 2.5Y 4/4 olive brown, medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, wet		-30	
210						GP		GRAVEL: 2.5Y 4/3 coarse gravel, angular to well rounded, wet		-35	
215						SP		SAND: 2.5Y 5/3 light olive brown, medium grained, little coarse subangular gravel, wet		-40	
220								SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, wet		-45	
225								SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, wet		-50	
230						SC		SAND: 2.5Y 4/1 dark gray, medium grained, some clay, trace fine sand, wet		-55	
235										-60	
240						SP		SAND: 2.5Y 4/1 dark gray, medium grained, trace fine sand, wet		-65	
245						GP		GRAVEL: 2.5Y 4/1 dary gray, angular to subrounded, wet		-70	
250						CL		CLAY: 2.5Y 4/1 dark gray, trace fine grained sand, wet		-75	
255						SP		SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, wet			
								SAND: 2.5Y 5/3 light olive brown, medium grained, little fine sand, wet			

[illegible]

LOC ID: MW-335

Project Name: J-2 RANGE							Location: J-2 RANGE, WOOD ROAD			
Northing: M1: 4618476.24, M2: 4618476.29, M3: 4618476.34							Easting: M1: 374680.98, M2: 374680.98, M3: 374680.98			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										
315								SAND: 2.5Y 5/3 light olive brown, fine grained, trace silt, wet		-135
320								SAND: 2.5Y 4/3 olive brown, fine grained, trace silt, wet		-140
325								SAND: 2.5Y 4/2 dark grayish brown, fine grained, trace silt, wet		-145
330								SAND: 10YR 5/8 dark yellowish brown, medium grained, trace fine angular to subrounded gravel, wet		-150
335								SAND: 10YR 5/2 dark grayish brown, medium grained, trace fine subangular to subrounded gravel, wet		-155
340								SAND: 10YR 5/2 dark grayish brown, fine grained, little fine subangular to well rounded gravel, wet		-160
345						BR		BEDROCK		-165
350								Notes: 1. Well Depths MW-335M1: 265.53 ft (BGS) MW-335M2: 225.77 ft (BGS) MW-335M3: 130.26 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-335M1: 10.00 ft MW-335M2: 10.00 ft MW-335M3: 10.00 ft 4. Screen Intervals MW-335M1: 255.20 - 265.20 ft (BGS) MW-335M2: 215.25 - 225.25 ft (BGS) MW-335M3: 119.87 - 129.87 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 177.52 ft (MSL)		-170
355										-175
360										-180

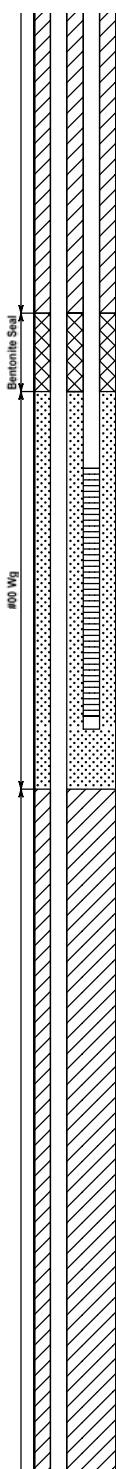
LOC ID: MW-336

Project Name: J-2 RANGE										Location:									
Northing: D: 4617407.46, M1: 4617407.51										Easting: D: 374314.89, M1: 374314.89									
Drilling Contractor: D. L. Maher Co.										Elevation ft (MSL): D: 158.09, M1: 158.07 @ Top PVC									
Drilling Equipment: Dual Air Rotary										Well Depth ft (BGS): D: 320.27, M1: 135.71									
Drilling Method: Air-Rotary										BH Depth/Diam: 323.15 ft (BGS), 8.00 in.					First Water ft (BGS): 97				
Sampling Method: Stainless Steel Bailer										Start/End Date: 06/15/04 - 08/03/04					Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC										Project Number: 35AY5301					Static Water ft (BTOC): 89.72				
Logged by: L. Baerga					Reviewed by: Larry Pannell, PG					Completion: Flushmount					Date Measured: 04/18/05				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)							
					CPS														
					20	45	70												
0								SP		SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, little fine angular to subrounded gravel, dry		160							
5												155							
10												150							
15										SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, dry		145							
20												140							
25											135								
30											130								
35										SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, dry	125								
40											120								
45										SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, dry	115								

LOC ID: MW-336

Project Name: J-2 RANGE							Location:			
Northing: D: 4617407.46, M1: 4617407.51							Easting: D: 374314.89, M1: 374314.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
50									110	
55							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace fine angular to subrounded gravel, dry		105	
60							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, dry		100	
65									95	
70									90	
75									85	
80									80	
85							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, little fine subrounded gravel, dry		75	
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine subangular to subrounded gravel, dry		70	
95									65	
100									60	
105							SAND: 2.5Y 6/4 light yellowish brown, medium grained,		55	

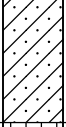
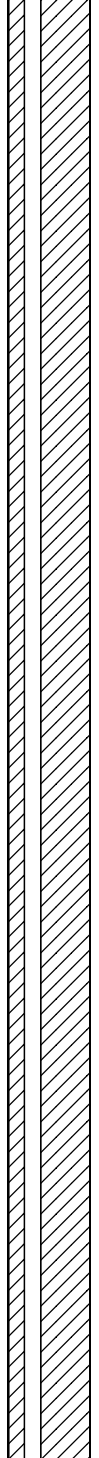

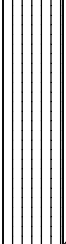
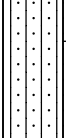
LOC ID: MW-336

Project Name: J-2 RANGE							Location:			
Northing: D: 4617407.46, M1: 4617407.51							Easting: D: 374314.89, M1: 374314.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
110								little coarse sand, trace fine sand, little fine subangular to subrounded gravel, trace coarse subangular to subrounded gravel, wet		50
							SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, some fine angular to subrounded gravel, wet	45		
115							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, little fine angular to subrounded gravel, wet	40		
120							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine subangular to subrounded gravel, wet	35		
125						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, little silt, wet	30		
130						GP	GRAVEL: 2.5Y 6/4 light yellowish brown, fine angular to subrounded gravel, some coarse sand, wet	25		
135						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, little silt, wet	20		
140							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, some silt, wet	15		
145								10		
150								5		
155						SWSM	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, some fine angular to subrounded gravel, little coarse angular to subrounded gravel, little silt, wet	0		
160							GRAVELLY SAND: 2.5Y 5/6 light olive brown, medium grained sand, coarse sand, some fine angular to subrounded gravel, little coarse angular to subrounded gravel, little silt, wet	-5		
165										

LOC ID: MW-336

Project Name: J-2 RANGE							Location:			
Northing: D: 4617407.46, M1: 4617407.51							Easting: D: 374314.89, M1: 374314.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
170						SP	SAND: 2.5Y 5/6 light olive brown, coarse grained, some fine angular gravel, wet			-10
175						SM	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, little fine sand, little silt, wet			-15
180							SAND: 10YR 5/6 yellowish brown, medium grained, trace coarse sand, some fine sand, little silt, wet			-20
185							SAND: 10YR 5/6 yellowish brown, fine grained, trace coarse sand, little medium sand, little silt, wet			-25
190							SAND: 10YR 5/6 yellowish brown, fine grained, trace coarse sand, little medium sand, little silt, wet			-30
195							SAND: 10YR 5/6 yellowish brown, fine grained, trace coarse sand, little medium sand, little silt, wet			-35
200							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, little silt, wet			-40
205							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, little silt, wet			-45
210						SC	SAND: 5Y 5/3 olive, fine grained sand, trace coarse, trace medium sand, little fine angular to subrounded gravel, trace silt, some clay, wet			-50
215							SAND: 5Y 5/3 olive, fine grained sand, trace coarse, little medium sand, trace fine angular gravel, little silt, some clay, wet			-55
220							SAND: 5Y 5/3 olive, fine grained sand, trace coarse, little medium sand, trace fine angular gravel, little silt, some clay, wet			-60
225							SAND: 5Y 5/3 olive, fine grained sand, trace coarse, little medium sand, trace fine angular gravel, little silt, some clay, wet			-65

LOC ID: MW-336

Project Name: J-2 RANGE							Location:			
Northing: D: 4617407.46, M1: 4617407.51							Easting: D: 374314.89, M1: 374314.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
230						SM		SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, little silt, wet		-70
235								SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, trace fine angular gravel, little silt, wet		-75
240								SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, wet		-80
245										-85
250								SAND: 2.5Y 6/6 olive yellow, fine grained, some silt, little gray clay, wet		-90
255										-95
260										-100
265						CL		CLAY: 5Y 5/3 olive, clay, little silt, wet		-105
270						ML		SILT: 5Y 5/3 olive, silt, some clay, little fine sand, wet		-110
275										-115
280						SM		SAND: 2.5Y light olive brown, medium grained, little fine sand, some silt, little clay, wet		-120
								SAND: 2.5Y 6/6 olive yellow, medium grained, little fine sand, some silt, little clay, wet		-125



















LOC ID: MW-336

Project Name: J-2 RANGE							Location:		
Northing: D: 4617407.46, M1: 4617407.51							Easting: D: 374314.89, M1: 374314.89		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram Elevation (ft msl)
285									-130
290							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, little silt, wet		-135
295									-140
300									-145
305									-150
310						GP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little silt, wet		-155
315							GRAVEL: 5Y 4/1 dark gray, fine angular gravel, trace coarse angular gravel, wet. Few rounded pieces of gravel		-160
320						SP	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little fine angular gravel, wet		-165
						GP	GRAVEL: 5Y 4/1 dark gray, fine angular to subangular crystalline gravel. No rounded or subrounded gravel observed beginning at 321' bgs		-170
						BR			-175
325							BEDROCK		-180
330							Notes: 1. Well Depths MW-336D: 320.27 ft (BGS) MW-336M1: 135.71 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-336D: 10.00 ft MW-336M1: 10.00 ft 4. Screen Intervals MW-336D: 309.94 - 319.94 ft (BGS) MW-336M1: 125.18 - 135.18 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 158.71 ft (MSL)		-180
335									-180
340									-180

LOC ID: MW-337

Project Name: J-2 RANGE							Location:			
Northing: D: 4620199.12, M1: 4620199.17							Easting: D: 374407.83, M1: 374407.83			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
50									140	
							SAND: 2.5Y 7/3 pale yellow, medium grained, some fine sand, dry			
55							SAND: 2.5Y 7/3 pale yellow, medium grained, some fine sand, trace subangular to subrounded gravel, dry		135	
60							SAND: 2.5Y 7/4 pale yellow, medium grained, some fine sand, dry		130	
65							SAND: 2.5Y 7/3 pale yellow, medium grained, some fine sand, dry		125	
70							SAND: 2.5Y 6/3 light yellowish brown, meidum grained, trace fine sand, dry		120	
75							SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, trace subangular to subrounded gravel, dry		115	
80							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine sand, dry		110	
85							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, dry		105	
90							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine sand, dry		100	
95							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine sand, trace coarse sand, dry		95	
100							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine sand, trace angular to subrounded gravel, dry		90	
105							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine sand, dry		85	

LOC ID: MW-337

Project Name: J-2 RANGE							Location:			
Northing: D: 4620199.12, M1: 4620199.17							Easting: D: 374407.83, M1: 374407.83			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, dry			80
115										75
120										70
125										65
130							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, damp			60
135							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, damp			55
140						GP	GRAVEL: 2.5Y 6/3 light yellowish brown, coarse subangular to subrounded gravel, dry			50
145						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, subangular to subrounded gravel, wet			45
150							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, wet			40
155							SAND: 2.5Y 6/3 light yellowish brown, medium grained, some coarse sand, trace fine subangular to rounded gravel, wet			35
160							SAND: 2.5Y 5/4 light olive brown, medium grained, trace fine sand, wet			30
165							SAND: 2.5Y 4/3 olive brown, medium grained, trace fine sand, wet			25

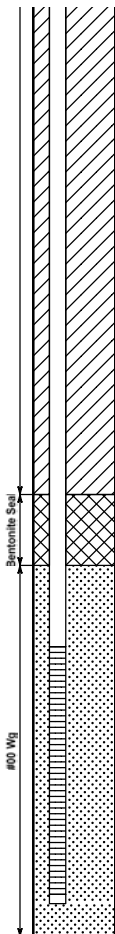
LOC ID: MW-337

Project Name: J-2 RANGE							Location:			
Northing: D: 4620199.12, M1: 4620199.17							Easting: D: 374407.83, M1: 374407.83			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
170										20
175										15
180							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			10
185							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine subangular to subrounded gravel, wet			5
190							SAND: 2.5Y 5/2 grayish brown, medium grained, some coarse sand, trace coarse sand, trace fine subangular to subrounded gravel, wet			0
195							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			-5
200							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, wet			-10
205							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			-15
210							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, wet			-20
215							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			-25
220							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, wet			-30
225							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, wet			-35
							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			

LOC ID: MW-337

Project Name: J-2 RANGE							Location:			
Northing: D: 4620199.12, M1: 4620199.17							Easting: D: 374407.83, M1: 374407.83			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
230							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, trace fine sand, wet			-40
235							SAND: 2.5Y 4/4 olive brown, medium grained, some fine sand, trace silt, wet			-45
240							SAND: 2.5Y 4/4 olive brown, fine grained, trace silt, wet			-50
245										-55
250							SAND: 2.5Y 4/4 olive brown, medium grained, trace coarse sand, trace fine sand, wet			-60
255										-65
260							SAND: 2.5Y 4/3 olive brown, medium grained, some fine sand, wet			-70
265							SAND: 2.5Y 5/3 light olive brown, medium grained, some fine sand, wet			-75
270						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, wet			-80
275							SAND: 2.5Y 5/3 light olive brown, fine grained, some silt, wet			-85
280							SAND: 2.5Y 4/3 olive brown, fine grained, some silt, wet			-90

LOC ID: MW-337

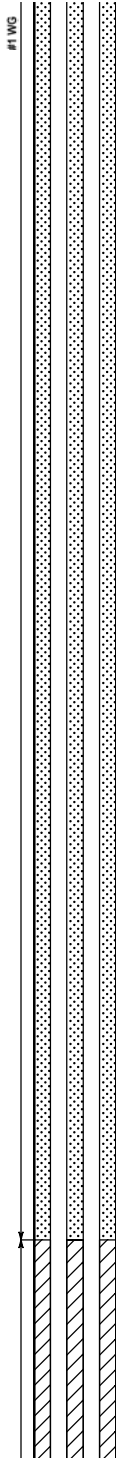
Project Name: J-2 RANGE							Location:			
Northing: D: 4620199.12, M1: 4620199.17							Easting: D: 374407.83, M1: 374407.83			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
285										-95
290						SP	SAND: 2.5Y 4/4 olive brown, fine grained, trace silt, wet			-100
295										-105
300							SAND: 2.5Y 4/3 olive brown, medium grained, trace coarse sand, trace fine subangular to rounded gravel, wet			-110
305										-115
310						GP	GRAVEL: various colors, angular to rounded gravel, little sand, trace silt, wet			-120
315							GRAVEL: various colors, angular gravel, little sand, trace silt, wet		-125	
320						BR	BEDROCK: bedrock encountered		-130	
325							Notes: 1. Well Depths MW-337D: 320.37 ft (BGS) MW-337M1: 254.09 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-337D: 10.00 ft MW-337M1: 10.00 ft 4. Screen Intervals MW-337D: 310.00 - 320.00 ft (BGS) MW-337M1: 243.71 - 253.71 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 189.34 ft (MSL)		-135	
330									-140	
335									-145	

Printed on 11/01/06

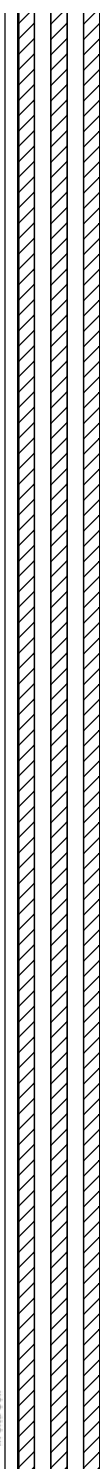
LOC ID: MW-339

Project Name: J-2 RANGE					Location:						
Northing: M1: 4618319.25, M2: 4618319.30					Easting: M1: 374443.03, M2: 374443.03						
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 168.18, M2: 168.18 @ Top PVC								
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 243.30, M2: 223.30								
Drilling Method: Air-Rotary			BH Depth/Diam: 328.02 ft (BGS), 8.00 in.				First Water ft (BGS): 110				
Sampling Method: Stainless Steel Bailer			Start/End Date: 06/24/04 - 07/15/04				Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC			Project Number: 35AY5301				Static Water ft (BTOC): 97.18				
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 04/04/06			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10		USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
0											170
							SM		SAND: 2.5Y 4/2 dark grayish brown, medium grained, little fine sand, trace fine gravel, some silt, dry		
5							SP		SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, dry		165
10									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine angular to subrounded gravel, dry		160
15									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine angular to subrounded gravel, dry		155
20							SW		GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, some fine angular to subangular gravel, trace coarse gravel, dry		150
25											145
30											140
35							SP		SAND: 2.5Y 7/3 pale yellow, medium grained, little coarse sand, trace fine angular to subangular gravel, dry		135
40									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine angular to subangular		130

LOC ID: MW-339

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45							gravel, dry		125	
50							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, some fine angular to subangular gravel, dry		120	
55							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace fine angular gravel, dry		115	
60							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine angular to subangular gravel, dry		110	
65							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, some fine angular to subangular gravel, dry		105	
70							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, some fine angular to subangular gravel, dry		100	
75							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, dry	95		
80							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, trace fine angular to subangular gravel, dry	90		
85							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, some fine angular to subangular gravel, dry	85		
90								80		
95								75		

LOC ID: MW-339

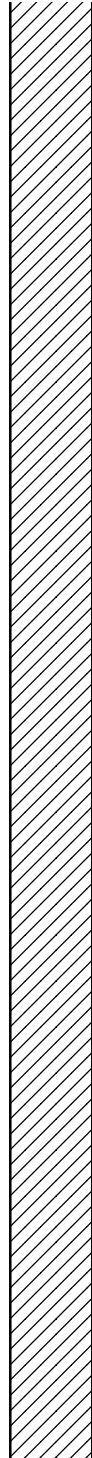
Project Name: J-2 RANGE							Location:			
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100										70
105							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine angular to subangular gravel, dry			65
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine angular to subangular gravel, dry/damp			60
115										55
120						GP	GRAVEL: 2.5Y 6/4 light yellowish brown, fine angular to subangular gravel, some coarse sand, little medium sand, damp			50
125						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular to subangular gravel, little silt, wet			45
130						SP	SAND: 2.5Y 5/4 light olive brown, fine grained, little coarse sand, some medium sand, little silt		40	
135									35	
140						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, some silt, wet		30	
145									25	
									20	

LOC ID: MW-339

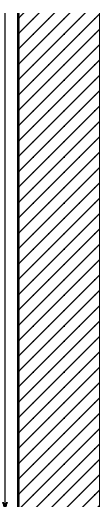
Project Name: J-2 RANGE							Location:			
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150								SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, little fine angular to subrounded gravel, little silt, wet		15
155								SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, some fine sand, little silt, wet		10
160						SP		GRAVELLY SAND: 2.5Y 5/4 light olive brown, coarse grained sand, some fine angular to subangular gravel, trace coarse gravel, wet		5
165										
170						SM		SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, little silt, wet		0
175						SWSM		GRAVEL: multi-colored, fine angular to subangular gravel, little coarse sand, trace medium sand, little silt, wet		-5
180										-10
185						SM		SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, little fine angular to subrounded gravel, little silt, wet		-15
190						GP		GRAVEL: 2.5Y 6/4 light yellowish brown, multi-colored fine angular to subrounded gravel, trace coarse angular gravel, little coarse sand, wet		-20
195								GRAVEL: 2.5Y 6/4 light yellowish brown, fine angular to subrounded gravel, trace coarse gravel, some coarse sand, little medium sand, trace fine sand, trace silt, wet		-25
200								SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine angular gravel, trace silt, wet		-30
						SWSM		GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, some fine angular to subrounded gravel, little silt, wet		

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
205									-35
210									-40
215							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, some fine angular to subrounded gravel, trace coarse gravel, little silt, wet		-45
220						SM	SAND: 10YR 5/4 yellowish brown, medium grained, little coarse sand, trace fine sand, little fine angular to subrounded gravel, trace coarse gravel, little silt, wet		-50
225						SMSC	CLAYEY SAND: 2.5Y 5/6 light olive brown, medium grained sand, little coarse sand, trace fine sand, little silt, little gray clay, trace fine angular to subrounded gravel, wet SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, some silt, little clay, wet		-55
230									-60
235						ML	SANDY SILT: 2.5Y 6/4 light yellowish brown, trace coarse sand, trace medium sand, some fine sand, trace fine angular gravel, wet		-65
240									-70
245									-75
250						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, some silt, wet SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, little fine angular gravel, some silt, wet		-80
255									-85

LOC ID: MW-339

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-90
265							SAND: 2.5Y 5/4 light olive brown, fine grained, little coarse sand, little medium sand, little fine angular gravel, some silt, wet			-95
270							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, some silt, wet			-100
275							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, some silt, wet			-105
280										-110
285							SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, little silt, wet			-115
290							SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, some silt, wet			-120
295							SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, some silt, trace clay, wet			-125
300						SMSC	SILTY SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, some silt, little clay, wet			-130
305										-135
										-140

LOC ID: MW-339

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618319.25, M2: 4618319.30							Easting: M1: 374443.03, M2: 374443.03			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310						CL	CLAY: 2.5Y 5/3 light olive brown, clay, damp			-145
315						ML	SILT: 2.5Y 6/6 olive yellow, silt, little fine sand, wet			-150
320										-155
325						GP	GRAVEL: blank, pink granitic angular to subrounded gravel, little coarse sand, little medium sand, wet. Gravel becomes all angular at 327.52 bgs			-160
						BR	BEDROCK			-165
330										-170
335							Notes: 1. Well Depths MW-339M1: 243.30 ft (BGS) MW-339M2: 223.30 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-339M1: 10.00 ft MW-339M2: 10.00 ft 4. Screen Intervals MW-339M1: 233.00 - 243.00 ft (BGS) MW-339M2: 213.00 - 223.00 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 168.84 ft (MSL)			
340							Printed on 01/10/07			

Printed on 01/10/07

LOC ID: MW-340

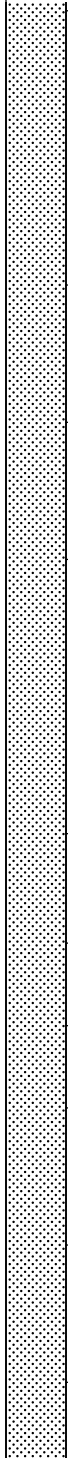
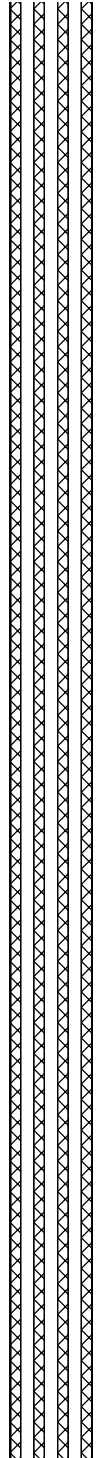

[illegible]

[illegible]

LOC ID: MW-340

Project Name: J-2 RANGE							Location:			
Northing: D: 4620708.94, M1: 4620708.99, M2: 4620709.04							Easting: D: 374574.33, M1: 374574.33, M2: 374574.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100										100
105							SAND: 2.5Y 6/3 light yellowish brown, medium grained, trace fine subangular ot subrounded gravel, loose, dry			95
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, dry			90
115							SAND: 2.5Y 6/4 light yellowish brown, fine grained, dry			85
120							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, dry			80
125							SAND: 2.5Y 6/3 light yellowish brown, fine grained, trace medium sand, dry			75
130							SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, dry			70
135							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, trace subangular to subrounded gravel, dry			65
140							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, dry			60
145							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine subangular to rounded gravel, dry			55
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine sand, dry			50
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine subrounded gravel, dry			

LOC ID: MW-340

Project Name: J-2 RANGE							Location:				
Northing: D: 4620708.94, M1: 4620708.99, M2: 4620709.04							Easting: D: 374574.33, M1: 374574.33, M2: 374574.33				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
150										45	
155						SAND: 2.5Y 5/3 light olive brown, coarse grained, little medium sand, trace fina angular to subrounded gravel, damp					Bentonite Seal
160						SAND: 2.5Y 4/4 olive brown, fine grained, trace medium sand, wet					
165						SAND: 2.5Y 4/3 olive brown, coarse grained, trace medium sand, trace subrounded gravel, wet					
170						SAND: 2.5Y 4/4 olive brown, fine grained, wet					
175						SAND: 2.5Y 5/4 light olive brown, fine grained, wet					
180						SAND: 2.5Y 5/4 light olive brown, coarse grained, little medium sand, trace fine sand, trace subrounded to rounded gravel, wet					
185						SAND: 2.5Y 4/4 olive brown, fine grained, loose, wet					
190						SAND: 2.5Y 4/3 olive brown, coarse grained, trace medium sand, trace fine sand, trace fine subangular to rounded gravel, wet					
195						SAND: 2.5Y 4/4 olive brown, fine grained, trace fine subangular to rounded gravel, wet					
200						SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, wet					

LOC ID: MW-340

Project Name: J-2 RANGE							Location:		
Northing: D: 4620708.94, M1: 4620708.99, M2: 4620709.04							Easting: D: 374574.33, M1: 374574.33, M2: 374574.33		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
205									-5
210							SAND: 2.5Y 4/4 olive brown, medium grained, trace fine sand, trace fine subangular to subrounded gravel, wet		-10
215									-15
220							SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, trace fine subrounded to rounded gravel, wet		-20
225							SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, trace fine subangular to rounded gravel, wet		-25
230							SAND: 2.5Y 4/3 olive brown, medium grained, trace fine sand, loose, wet		-30
235									-35
240							SAND: 2.5Y 4/4 olive brown, fine grained, trace medium sand, wet		-40
245							SAND: 2.5Y 4/3 olive brown, fine grained, trace medium sand, wet		-45
250							SAND: 2.5Y 4/4 olive brown, fine grained, trace medium sand, wet		-50
255							SAND: 2.5Y 5/4 light olive brown, medium grained,		-55

LOC ID: MW-340

Project Name: J-2 RANGE						Location:				
Northing: D: 4620708.94, M1: 4620708.99, M2: 4620709.04						Easting: D: 374574.33, M1: 374574.33, M2: 374574.33				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260								trace coarse sand, trace fine subangular to subrounded gravel, wet		-60
265						GP		SAND: 2.5Y 5/3 light olive brown, medium grained, trace fine sand, trace fine angular to subrounded gravel, wet		-65
270						SP		GRAVEL: various colors, angular to subrounded, wet		-70
275								SAND: 2.5Y 5/3 light olive brown, medium grained, some coarse subangular to rounded gravel, wet		-75
280								SAND: 2.5Y 4/4 olive brown, fine grained, wet		-80
285								SAND: 2.5Y 4/3 olive brown, fine grained, wet		-85
290								SAND: 2.5Y 4/4 olive brown, fine grained, wet		-90
295										-95
300										-100
305								SAND: 2.5Y 5/3 light olive brown, fine grained, subrounded to rounded gravel, wet		-105
								SAND: 2.5Y 5/4 light olive brown, fine grained, subangular to subrounded gravel, wet		-110

[illegible]

LOC ID: MW-340

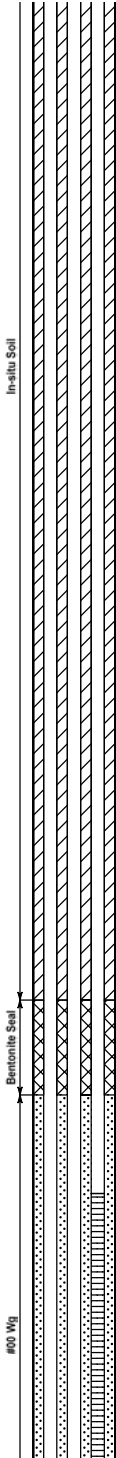
Project Name: J-2 RANGE							Location:		
Northing: D: 4620708.94, M1: 4620708.99, M2: 4620709.04							Easting: D: 374574.33, M1: 374574.33, M2: 374574.33		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
							6. Surface Elevation: 198.65 ft (MSL)		-165

LOC ID: MW-342

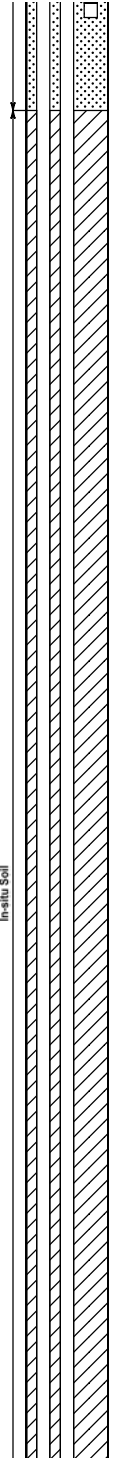
Project Name: J-2 RANGE						Location:								
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90						Easting: M1: 374450.07, M2: 374450.07, S: 374450.07								
Drilling Contractor: D. L. Maher Co.					Elevation ft (MSL): M1: 149.55, M2: 149.55, S: 149.55 @ Top PVC									
Drilling Equipment: Dual Air Rotary					Well Depth ft (BGS): M1: 204.05, M2: 174.11, S: 96.84									
Drilling Method: Air-Rotary					BH Depth/Diam: 316.90 ft (BGS), 8.00 in.					First Water ft (BGS): 82				
Sampling Method: Stainless Steel Bailer					Start/End Date: 07/09/04 - 07/27/04					Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC					Project Number: 35AY5301					Static Water ft (BTOC): 78.52				
Logged by: L. Baerga			Reviewed by: Larry Pannell, PG			Completion: Flushmount				Date Measured: 11/10/05				

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class		Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					CPS							
					Conductivity							
					2	6	10					
-	-	-	-	-	-	-	-	-	-	M1 M2 S	-	
0	-	-	-	-	-	-	-	OL		ORGANIC SILT: 10YR 4/3 brown, little fine sand, roots, dry	150	
-	-	-	-	-	-	-	-	SM			-	
5	-	-	-	-	-	-	-	SP	[Pattern]	SAND: 10YR 5/4 yellowish brown, fine grained, trace coarse sand, little medium sand, little fine angular to rounded gravel, some silt, dry	145	
-	-	-	-	-	-	-	-			SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, some fine angular to subrounded gravel, dry	-	
10	-	-	-	-	-	-	-	SM	[Pattern]	SAND: 10YR 6/6 brownish yellow, medium grained, little coarse sand, trace fine sand, some fine angular to subrounded gravel, little silt, dry	140	
15	-	-	-	-	-	-	-				135	
20	-	-	-	-	-	-	-	SP	[Pattern]	SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, little fine angular to subrounded gravel, dry	130	
25	-	-	-	-	-	-	-				125	
30	-	-	-	-	-	-	-				120	
35	-	-	-	-	-	-	-				115	
40	-	-	-	-	-	-	-				110	

LOC ID: MW-342

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90							Easting: M1: 374450.07, M2: 374450.07, S: 374450.07		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
45									105
50							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine subangular to subrounded gravel, dry		100
55									95
60									90
65									85
70							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, dry	80	
75								75	
80							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace fine subangular to subrounded gravel, damp	70	
85								65	
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little silt, wet	60	
95								55	

LOC ID: MW-342


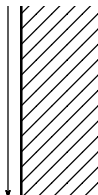
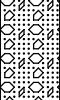

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90							Easting: M1: 374450.07, M2: 374450.07, S: 374450.07			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
						SM				
100							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine angular to subrounded gravel, little silt, wet			50
105										45
110										40
115										35
120							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, little silt, wet		30	
125									25	
130							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little silt, wet		20	
135							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, coarse grained sand, little medium sand, trace fine sand, some fine angular to subrounded gravel, little silt, wet		15	
140									10	
145							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, some silt, wet		5	

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90							Easting: M1: 374450.07, M2: 374450.07, S: 374450.07		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
150							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, some silt, wet	<p>The diagram shows a vertical cross-section of the well. It includes labels for 'Bentonite Seal' at approximately 158 ft and 192 ft depth, and '#60 Wg' (wireline) at approximately 162 ft and 198 ft depth. The lithologic symbols used are diagonal hatching for sand, stippling for coarse sand, and horizontal dashes for fine sand.</p>	0
155									-5
160									-10
165									-15
170							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, some fine angular to subrounded gravel, little silt, wet		-20
175								-25	
180							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, little silt, wet	-30	
185							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, some silt, wet	-35	
190							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, some silt, trace clay, wet	-40	
195								-45	
200								-50	

LOC ID: MW-342

Project Name: J-2 RANGE						Location:				
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90						Easting: M1: 374450.07, M2: 374450.07, S: 374450.07				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-110
265										-115
270						CL	CLAY: 5Y 5/3 olive, little silt, trace fine sand, wet			-120
275						SC	SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, some silt, little clay, wet			-125
280						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, wet			-130
285										-135
290										-140
295										-145
300										-150
305						SMSC	SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, little clay, wet			-155

LOC ID: MW-342

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617567.80, M2: 4617567.85, S: 4617567.90							Easting: M1: 374450.07, M2: 374450.07, S: 374450.07			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310						SM		SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, wet		-160
315						GP		GRAVEL: multicolored fine angular to subrounded gravel, little coarse angular to subrounded gravel, little coarse sand, little medium sand, little silt, wet. Gravel composed of multiple lithologies and mineralogy		-165
320						BR		BEDROCK: Represented by fine angular gravel composed of black crystalline rock. Multiple lithologies above replaced by singular lithology: quartz diorite/granite.		-170
325							Notes: 1. Well Depths MW-342M1: 204.05 ft (BGS) MW-342M2: 174.11 ft (BGS) MW-342S: 96.84 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-342M1: 10.00 ft MW-342M2: 10.00 ft MW-342S: 10.00 ft 4. Screen Intervals MW-342M1: 193.73 - 203.73 ft (BGS) MW-342M2: 163.80 - 173.80 ft (BGS) MW-342S: 86.31 - 96.31 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 149.93 ft (MSL)			-175
330										-180

LOC ID: MW-345

Project Name: J-2 RANGE				Location:			
Northing: M1: 4620599.26, M2: 4620599.31				Easting: M1: 374850.89, M2: 374850.89			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 185.74, M2: 185.74 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 321.81, M2: 246.93				
Drilling Method: Air-Rotary			BH Depth/Diam: 356.73 ft (BGS), 8.00 in.			First Water ft (BGS): 125	
Sampling Method: Stainless Steel Bailer			Start/End Date: 08/04/04 - 08/27/04			Well Diameter (in.): 2.50	
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 126.30	
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 06/16/05	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0											
								OL	ORGANIC SILT: 10YR 4/4 dark yellowish brown, some fine sand, trace coarse sand, trace fine angular gravel, dry		185
								SP	SAND: 10Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, some fine angular gravel, dry		180
5											
									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, some fine gravel, dry		175
10											
											170
15											
									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace to little fine angular gravel, dry		165
20											
											160
25											
											155
30									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular		

LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
35 <										

LOC ID: MW-345

Project Name: J-2 RANGE							Location:		
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
75							subangular gravel, trace silt dry		110
80									105
85									100
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine angular to subangular gravel, trace silt, dry		95
95									90
100									85
105									80
110							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, trace silt, damp		75

LOC ID: MW-345

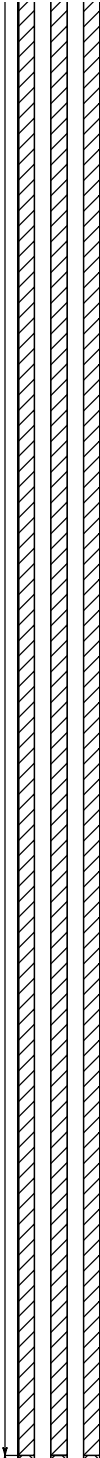
Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
115									70	
120							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular to subrounded gravel, trace silt, wet		65	
125							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, wet		60	
130							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, wet		55	
135									50	
140							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, wet		45	
145									40	
150							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace silt, wet		35	



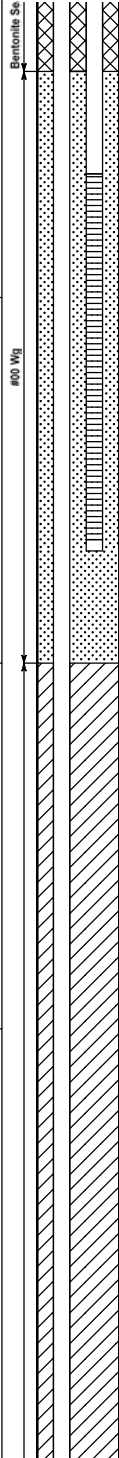
LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
155									30	
160							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, some fine angular to subrounded gravel, trace silt, wet		25	
165							SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, little fine angular to subrounded gravel, little coarse angular to subrounded gravel, wet		20	
170							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little fine angular to subrounded gravel, trace silt, wet		15	
175							SAND: 2.5Y 4/3 olive brown, medium grained, trace coarse sand, little fine sand, trace silt, wet		10	
180									5	
185									0	
190							SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little coarse sand, little medium sand, little coarse angular to subangular gravel, trace silt, wet		-5	

LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
195										-10
200										-15
205										-20
210										-25
215										-30
220										-35
225									-40	
230									-45	

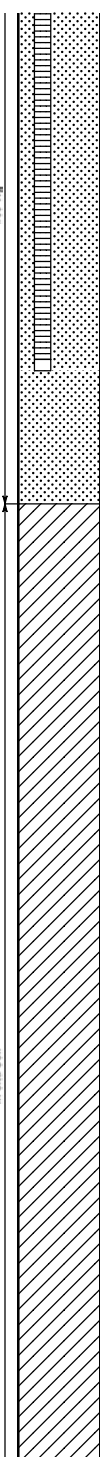
LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
235									-50	
240							SAND: 2.5Y 5/4 light olive brown, fine grained sand, some silt, wet		-55	
245									-60	
250							SAND: 2.5Y 5/4 light olive brown, fine grained, little silt, wet		-65	
255									-70	
260							SAND: 2.5Y 5/4 light olive brown, fine grained, little silt, wet		-75	
265									-80	
270									-85	


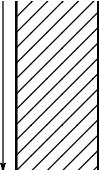

LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
275						SW	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, little silt, wet		<div><div>In-situ Soil</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>	

LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
315										-130
320							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little silt, wet			-135
325							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine angular to subrounded gravel, little silt, wet			-140
330							SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, little silt, wet			-145
335										-150
340								SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, wet		-155
345								SAND: 10YR 4/4 dark yellowish brown, medium grained, little coarse sand, little fine sand, little silt, wet		-160
350								SAND: 10YR 4/4 dark yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, little silt, wet		-165
						SW	SANDY GRAVEL: 2.5Y 5/4 light olive brown, angular to			

LOC ID: MW-345

Project Name: J-2 RANGE							Location:			
Northing: M1: 4620599.26, M2: 4620599.31							Easting: M1: 374850.89, M2: 374850.89			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
355							 subrounded fine gravel (multi-colored and composed of multiple lithologies), little coarse gravel, little coarse sand, some medium sand, trace fine sand, little silt, wet			-170
						BR	 BEDROCK: angular fine gravel composed of pink and black granitic rock; no subrounded grains or other lithologies			-175
360							Notes: 1. Well Depths MW-345M1: 321.81 ft (BGS) MW-345M2: 246.93 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-345M1: 10.00 ft MW-345M2: 10.00 ft 4. Screen Intervals MW-345M1: 311.50 - 321.50 ft (BGS) MW-345M2: 236.62 - 246.62 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 185.85 ft (MSL)			-180
365										

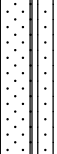
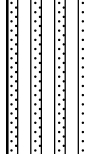

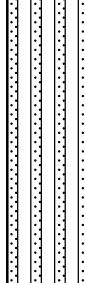
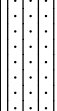
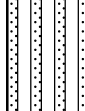


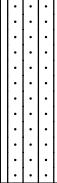
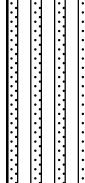













Printed on 01/10/07

LOC ID: MW-348

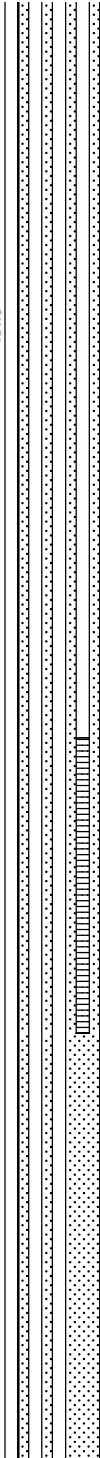
Project Name: J-2 RANGE				Location:			
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79				Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 180.53, M2: 180.53, PZ: 180.53 @ Top PVC				
Drilling Equipment: Rotosonic Drill			Well Depth ft (BGS): M1: 298.77, M2: 216.85, PZ: 124.16				
Drilling Method: Rotosonic Drill			BH Depth/Diam: 350.00 ft (BGS), 6.00 in.		First Water ft (BGS): 115		
Sampling Method: Submersible Pump			Start/End Date: 08/25/04 - 09/17/04		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 109.62	
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 09/27/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					CPS 20	45	70				
					2	6	10				
0									VOID: No sample collected due to hand augering for UXO clearance		180
5								SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace fine angular to subrounded gravel, cobbles, dry		175
10									SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, trace subrounded cobbles, trace silt, dry		170
15									SAND: 10YR 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, little coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, cobbles, trace silt, dry		165
20									GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, some coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little silt, dry		160
25									SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace fine sand, trace silt, dry		155
30								SWSM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, little silt, cobbles, dry		150
35								SM	GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, medium grained sand, little coarse sand, little fine sand, little coarse subangular to subrounded gravel, some fine subangular to subrounded gravel, little silt, dry		145
								SP	SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, some silt, dry		
									SAND: 2.5Y 7/6 yellow, medium grained, little coarse sand, little fine subangular to subrounded gravel, dry		

LOC ID: MW-348

Project Name: J-2 RANGE							Location:		
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
40						SWSM	 <div>GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, medium grained sand, little coarse sand, little fine sand, some fine subangular to subrounded gravel, little silt, dry</div>		140
45						GP	 <div>GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, medium grained sand, little coarse sand, little fine sand, some fine subangular to subrounded gravel, little coarse subangular to subrounded gravel, cobbles, dry</div>		135
50									130
55						SM	 <div>SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, some fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, little silt, cobbles, dry</div>		125
60							 <div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, trace silt, dry</div>		120
65							 <div>GRAVELLY SAND: 2.5Y 5/3 light olive brown, fine grained sand, trace coarse sand, little medium sand, trace coarse subangular to subrounded gravel, some subangular to subrounded gravel, little silt, dry</div>		115
70							No sample, no recovery.		110
75						SM	 <div>SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little silt, dry</div>		105
							 <div>SAND: 2.5Y 5/3 light olive brown, fine grained, trace coarse sand, little medium sand, little fine subangular to subrounded gravel, some silt, dry</div>		
80							COBBLES		
						SM	 <div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, some fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little silt, dry</div>		100
85							No sample, no recovery.		
						SM	 <div>SAND: 2.5Y 5/3 light olive brown, fine grained, trace coarse sand, little medium sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace cobbles, some silt, dry</div>		95
						SPSM	 <div>SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little medium sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace cobbles, some silt, dry</div>		

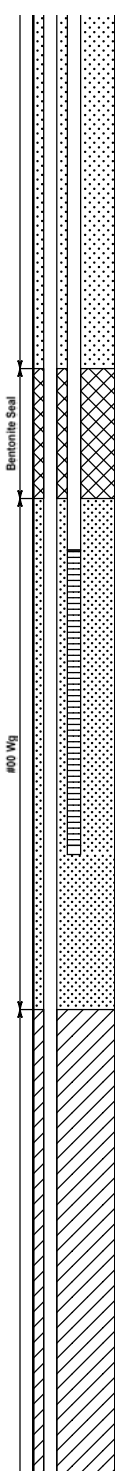
LOC ID: MW-348

Project Name: J-2 RANGE							Location:				
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
90									coarse sand, little fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace cobbles, trace silt, dry		90
									SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, trace fine subangular to subrounded gravel, little silt, dry		
95									SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace fine subangular to subrounded gravel, trace cobbles, trace to little silt, dry		85
									SANDY SILT: 2.5Y 5/4 light olive brown, some fine grained sand, trace coarse sand, little medium sand, trace coarse subangular to subrounded gravel, trace to little fine subangular to subrounded gravel, trace cobbles, dry		80
100									SAND: 2.5Y 7/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, trace silt, dry		
105									No sample, no recovery.		
						SM			SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, some fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little silt, dry		75
110									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine subangular to subrounded gravel, little silt, dry		70
									SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, trace fine subangular to subrounded gravel, little silt, damp		
115						SP			SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, some fine sand, trace fine subangular to subrounded gravel, trace silt, wet		65
120											60
									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace coarse subrounded gravel, trace fine subangular to subrounded gravel, wet		55
125											
130									No sample, no recovery.		50
135						SP			SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, trace silt, wet		45

LOC ID: MW-348

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
140										40
145										35
150										30
155										25
160							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, little fine sand, trace silt, wet. Occasional layers containing additional fine sand and trace to little silt.			20
165										15
170										10
175						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, little silt, wet			5
						ML	SILT: 2.5Y 6/3 light yellowish brown, some fine sand, wet			
180						SM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, little silt, wet			0
						ML	CLAYEY SILT: 10YR 6/6 brownish yellow, little clay, damp			
185						CL	CLAY: 5Y 5/2 olive gray, some silt, little fine sand, damp			-5

LOC ID: MW-348

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
190							No sample, no recovery.			-10
195						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine subangular to subrounded gravel, trace silt, wet			-15
200							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, little silt, wet			-20
205										-25
210							No sample, no recovery.			-30
215						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, some silt, wet			-35
220							SAND: 2.5Y 6/6 olive yellow, medium grained, trace coarse sand, some fine sand, trace fine subangular to subrounded gravel, trace cobbles, little silt, wet			-40
225							No sample, no recovery.			-45
230						SP	SAND: 10YR 5/6 yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, wet			-50
							No sample, no recovery.			-55
235						SP	SAND: 2.5Y 6/6 olive yellow grading to 2.5Y light yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace to little fine gravel, trace to little silt, wet			-55

LOC ID: MW-348

Project Name: J-2 RANGE						Location:					
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79						Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram Elevation (ft msl)
240											-60
245						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little silt, trace coarse subrounded gravel, wet				-65
250											-70
255							No sample, no recovery.				-75
260						SPSM	SAND: 2.5Y 7/4 pale yellow grading to 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace fine gravel, trace silt, wet				-80
265											-85
270											-90
275							No sample, no recovery.				-95
280						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace to little silt, damp				-100
285											-105

In-situ Soil

Bentonite Seal

LOC ID: MW-348

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
290										-110
295								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, some silt, damp, faint layering		-115
300						ML		SILT: 2.5Y 6/6 olive yellow, little fine sand, faint laminations, damp		-120
305								SANDY SILT: 2.5Y 5/6 light olive brown, fine grained sand, damp, laminated		-125
310										-130
315										-135
320								SILT: 2.5Y 4/3 olive brown, little fine sand, trace to little clay, damp, laminated with occasional seams of gray fine sand		-140
325								SILT: 2.5Y 6/4 light yellowish brown, little fine sand, trace to little clay, damp, laminated		-145
								No sample, no recovery.		
330						ML		SILT: 5Y 5/1, 5/2, 5/3 gray, olive gray, olive, little fine sand, little clay, damp, faint laminations		-150
335						SM		SAND: 2.5Y 5/6 light olive brown to 10YR 5/4 yellowish brown, fine grained, little coarse sand, little medium sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, some silt, wet		-155

LOC ID: MW-348

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619285.69, M2: 4619285.74, PZ: 4619285.79							Easting: M1: 374192.17, M2: 374192.17, PZ: 374192.17			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
340										
345						BR	▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲▼▲ BEDROCK: Pink, gray granite			
350										
355							Notes: 1. Well Depths MW-348M1: 298.77 ft (BGS) MW-348M2: 216.85 ft (BGS) MW-348PZ: 124.16 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-348M1: 10.00 ft MW-348M2: 10.00 ft MW-348PZ: 10.00 ft 4. Screen Intervals MW-348M1: 288.46 - 298.46 ft (BGS) MW-348M2: 206.54 - 216.54 ft (BGS) MW-348PZ: 114.16 - 124.16 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 180.61 ft (MSL)			
360										

LOC ID: MW-351

Project Name: J-2 RANGE				Location:			
Northing: M1: 4618926.80, M2: 4618926.85				Easting: M1: 374912.64, M2: 374912.64			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 160.22, M2: 160.22 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 289.04, M2: 244.07				
Drilling Method: Air-Rotary			BH Depth/Diam: 331.00 ft (BGS), 8.00 in.		First Water ft (BGS): 110		
Sampling Method: Stainless Steel Bailer			Start/End Date: 09/15/04 - 10/06/04		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 90.75		
Logged by: S. Mixan		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 03/27/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0								SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace to little coarse sand, trace medium sand, trace to little subangular fine gravels, some silt, dry		160
5											155
10									SAND: 2.5Y 7/4 pale yellow, fine grained, some medium sand, some silt, dry		150
15											145
20								GP	GRAVEL: 2.5Y 6/3 light yellowish brown, angular to subangular fine and coarse gravel, trace silt, dry		140
25								SM	SILTY SAND: 2.5Y 6/3 light yellowish brown, fine grained sand, trace medium sand, silts, dry		135
30										130	
35										125	
40								GP	GRAVEL: 2.5Y 6/3 light yellowish brown, subangular fine gravel, trace subangular coarse gravel, trace coarse sand, trace medium sand, trace to little fine sand, trace to little silt, dry	120	
								SP	SAND: 2.5Y 6/2 light brownish gray, medium grained, little coarse sand, some fine sand, trace silt, dry		

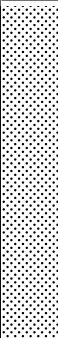
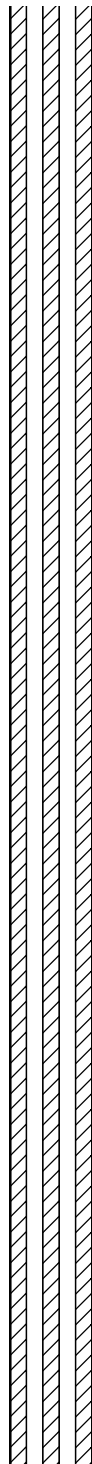
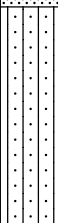
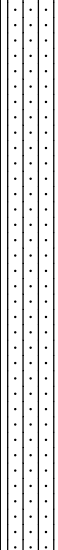
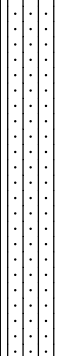
LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
45										115
50							SAND: 2.5Y 7/3 pale yellow, fine grained, trace coarse sand, trace medium sand, trace silt, dry			110
55										105
60										100
65							SAND: 2.5Y 7/3 pale yellow, fine grained, trace coarse sand, little medium sand, little silt, dry			95
70										90
75										85
80							SAND: 2.5Y 8/3 pale yellow, fine grained, trace coarse sand, little medium sand, trace to little silt, dry			80
85										75
90							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, some fine sand, trace silt, dry			70
95										65

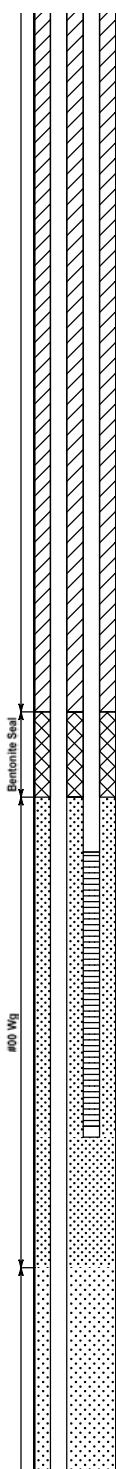
LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
100									60	
105							SAND: 2.5Y 6/3 light yellowish brown, medium grained, little coarse sand, some fine sand, trace fine subrounded gravel, trace silt, dry		55	
110							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, some coarse sand, fine subangular gravel, trace silt, wet		50	
115							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace to little fine sand, trace subrounded fine gravel, trace silt, wet		45	
120									40	
125							SAND: 2.5Y 5/3 light yellowish brown, fine grained, trace to little medium sand, little silt, wet		35	
130									30	
135							SAND: 2.5Y 7/3 pale yellow, medium grained, some coarse sand, little fine sand, trace subrounded fine gravel, trace silt, wet		25	
140									20	
145							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace silt, wet		15	

LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150								SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little coarse sand, some medium sand, little silt, wet		10
155										5
160										0
165						SM		SILTY SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, silts, wet		-5
170								SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace to little coarse sand, little medium sand, trace subangular fine gravel, some silt, wet		-10
175									-15	
180									-20	
185									-25	
190								SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little coarse sand, little medium sand, trace subrounded fine gravel, some silt, wet	-30	
195									-35	
200									-40	

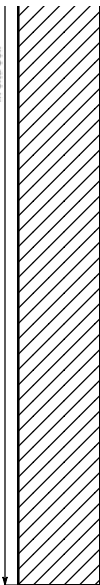
LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205								SAND: 2.5Y 6/3 light yellowish brown, fine grained sand, trace to little medium sand, little silt, wet		-45
210								SILTY SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, silts, wet		-50
215										-55
220										-60
225						SP		SAND: 2.5Y 6/3 light yellowish brown, medium grained, little coarse sand, some fine sand, trace silt, wet		-65
230								SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, some fine sand, trace silt, wet		-70
235										-75
240										-80
245								SAND: 2.5Y 7/3 pale yellow, medium grained, little fine sand, trace fine subrounded gravel, trace silt, wet		-85
250										-90
255										-95

LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260						GP	GRAVEL: 2.5Y 7/4 pale yellow, fine subrounded gravel, trace coarse gravel, trace coarse sand, trace medium sand, trace fine sand, trace silt, wet			-100
265						SP	SAND: 2.5Y 6/4 pale yellow, fine grained, trace coarse sand, trace to little medium sand, little fine gravel, trace silt, wet			-105
270										-110
275							SAND: 2.5Y 4/3 light yellowish brown, fine grained, trace to little coarse sand, little medium sand, trace subangular fine gravel, trace silt, wet			-115
280										-120
285										-125
290										-130
295							SAND: 2.5Y 6/3 light yellowish brown, fine grained, trace to little coarse sand, some medium sand, trace subangular fine gravel, trace silt, wet			-135
300										-140
305							GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, fine and medium grained sand, trace coarse sand, fine subrounded gravels, wet			-145

LOC ID: MW-351

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618926.80, M2: 4618926.85							Easting: M1: 374912.64, M2: 374912.64			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										-155
315										-160
320										-165
325						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, little silt, wet			-170
330						BR	BEDROCK: Granite bedrock encountered			-175
335							Notes: 1. Well Depths MW-351M1: 289.04 ft (BGS) MW-351M2: 244.07 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-351M1: 10.00 ft MW-351M2: 10.00 ft 4. Screen Intervals MW-351M1: 278.64 - 288.64 ft (BGS) MW-351M2: 233.67 - 243.67 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 159.83 ft (MSL)			-180
340										-185
345										-185
Printed on 11/01/06										

Printed on 11/01/06

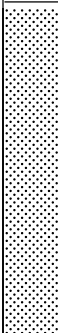
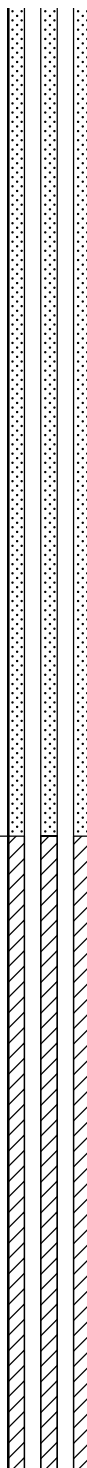
LOC ID: MW-354

Project Name: J-2 RANGE					Location: Coast Guard Com Station, Greenway Road MMR					
Northing: M1: 4618674.05, M2: 4618674.10					Easting: M1: 375115.62, M2: 375115.62					
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 175.04, M2: 175.04 @ Top PVC							
Drilling Equipment: Rotosonic Drill			Well Depth ft (BGS): M1: 284.82, M2: 245.12							
Drilling Method: Rotosonic Drill			BH Depth/Diam: 340.25 ft (BGS), 6.00 in.			First Water ft (BGS): 108.5				
Sampling Method: Submersible Pump			Start/End Date: 09/20/04 - 10/04/04			Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 102.95				
Logged by: D. Melcher		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 10/05/06				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
0						SM	SILTY SAND: 10YR 5/4 yellowish brown, fine grained sand, trace coarse sand, trace medium sand, trace rounded cobbles, trace coarse rounded gravel, trace fine rounded gravel, trace organics, dry		175	
5						SP	SAND: 10YR 5/4 yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace silt, dry		170	
10							GRAVELLY SAND: 10YR 5/4 yellowish brown, some medium sand, little coarse sand, little fine sand, little coarse subrounded to rounded gravel, little fine subrounded to well rounded gravel, trace subrounded cobbles, trace silt, dry		165	
15							GRAVELLY SAND: 10YR 5/4 yellowish brown, some medium sand, some coarse sand, trace fine sand, little coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, trace subangular cobbles, trace silt, dry		160	
20							GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, some medium sand, little coarse sand, little fine sand, some coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, trace subrounded cobbles, trace silt, dry		155	
25							SAND: 10YR 5/4 yellowish brown, some medium sand, little fine sand, trace to little coarse sand, little subrounded cobbles, little coarse subrounded to rounded gravel, trace to little fine subrounded to rounded gravel, trace silt, dry		150	
							GRAVELLY SAND: 10YR 4/4 dark yellowish brown, medium grained sand, little coarse sand, trace fine sand, some coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, little subrounded cobbles, trace silt, dry			
							SAND: 10YR 5/4 yellowish brown, medium grained, little coarse sand, little fine sand, little coarse subrounded to rounded gravel, trace fine rounded gravel, trace subrounded cobbles, trace silt, dry			
							SAND: 10YR 4/3 brown, some fine sand, little coarse sand, little medium sand, little coarse rounded gravel,			

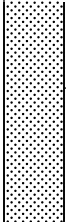
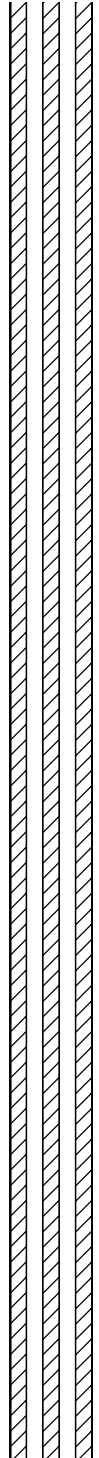
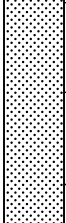
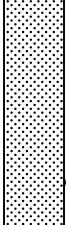
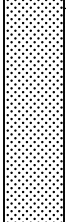

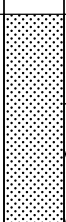
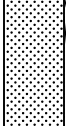
LOC ID: MW-354

Project Name: J-2 RANGE						Location: Coast Guard Com Station, Greenway Road MMR					
Northing: M1: 4618674.05, M2: 4618674.10						Easting: M1: 375115.62, M2: 375115.62					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
30						SPSM	trace fine rounded gravel, trace to little silt, dry				145
						SP	SAND: 10YR 5/4 yellowish brown, medium grained, little coarse sand, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, dry				
							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, dry				
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace to little rounded cobbles, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry				
35						SPSM	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some coarse sand, some medium sand, trace fine sand, some fine subrounded to well rounded gravel, trace to little coarse rounded gravel, trace silt, dry				140
						SP	SAND: 10YR 4/3 brown, medium grained, little fine sand, trace coarse sand, little fine subrounded to well rounded gravel, trace coarse rounded gravel, trace to little silt, dry				
							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, little coarse sand, little medium sand, little fine sand, some coarse subrounded to well rounded gravel, little fine rounded to well rounded gravel, trace silt, dry				135
							SAND: 10YR 5/4 yellowish brown, medium grained, little fine sand, trace coarse sand, little coarse subangular to rounded gravel, trace fine rounded gravel, trace rounded cobbles, trace silt, dry				
45						SPSM	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, trace coarse sand, trace medium sand, little coarse angular to rounded gravel, little fine subangular to rounded gravel, trace to little silt, dry				130
						SP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some fine sand, little medium sand, trace coarse sand, little coarse angular to rounded gravel, little fine angular to rounded gravel, trace silt, dry				
							SAND: 10YR 5/4 yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry				125
50							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, dry				
55						SPSM	GRAVELLY SAND: 2.5Y 6/3 light yellowish brown, fine grained sand, little medium sand, trace coarse sand, little coarse angular to subrounded gravel, little fine angular to rounded gravel, trace to little silt, dry				120
						SP	SAND: 2.5Y 6/4 light yellowish brown, fine and medium				

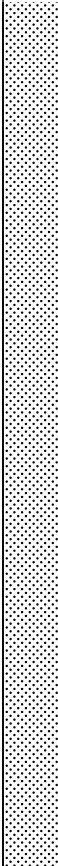
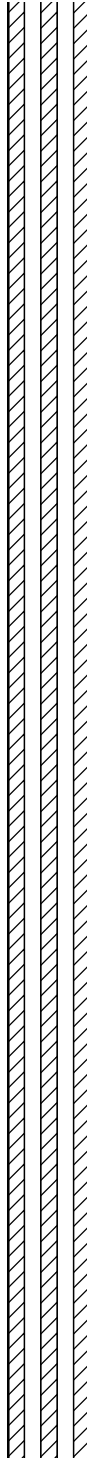
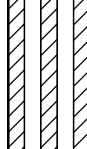
LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR			
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
60							 grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		115	
65							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, dry		110	
70									105	
75							SAND: 2.5Y 7/4 pale yellow, fine and medium grained, trace coarse sand, trace subrounded cobbles, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, dry		100	
80							SAND: 2.5Y 7/4 pale yellow, fine grained, little medium sand, trace coarse sand, trace fine rounded to well rounded gravel, trace silt, dry		95	
85							SAND: 2.5Y 6/4 light yellowish brown, some medium sand, some fine sand, trace to little coarse sand, little fine subangular to rounded gravel, trace coarse subangular to rounded gravel, trace silt, dry		90	
							SAND: 2.5Y 6/6 olive yellow, some medium sand, little coarse sand, little fine sand, some fine rounded to well rounded gravel, trace coarse rounded gravel, trace silt, dry		85	
90							SAND: 2.5Y 6/3 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace coarse well rounded gravel, trace fine well rounded gravel, trace silt, dry		80	

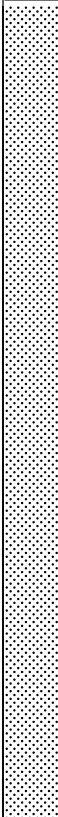
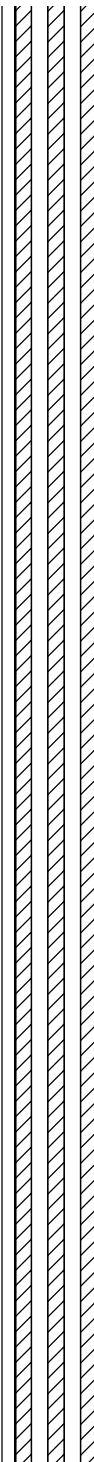


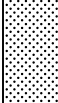
LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR							
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62							
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)				
95								SAND: 2.5Y 6/3 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		80				
								SAND: 2.5Y 6/3 light yellowish brown, fine and medium grained, trace coarse sand, trace to little coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, dry			75			
								SAND: 2.5Y 7/4 pale yellow, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry				70		
								SAND: 2.5Y 6/4 light yellowish brown, medium and coarse grained, trace to little fine sand, little coarse rounded to well rounded gravel, trace fine rounded to well rounded gravel, trace silt, dry					65	
								SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel trace fine rounded gravel, trace silt, dry						60
								SAND: 2.5Y 7/3 pale yellow, fine grained, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, damp						
							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, damp	50						
						SP	No sample, no recovery.			50				
											SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet	45		
											SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace to little fine rounded gravel, trace fine rounded gravel, trace silt, wet		40	
											SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			35
											SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			
	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet	25												

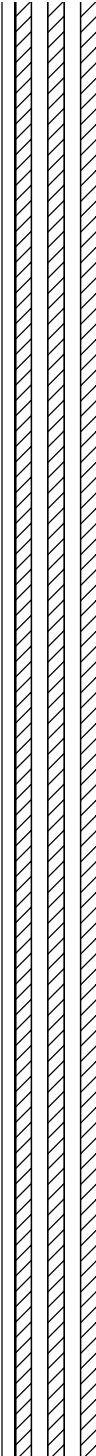
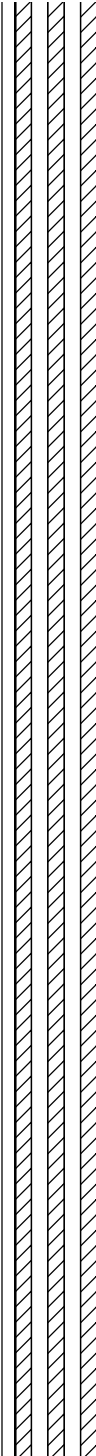
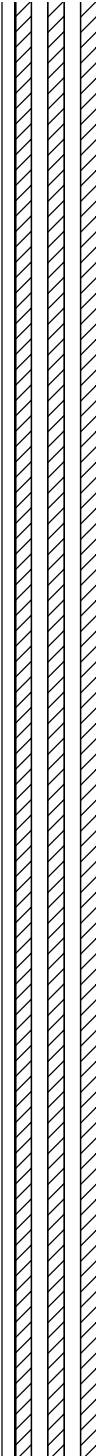
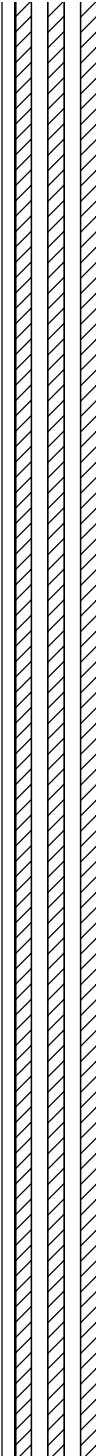
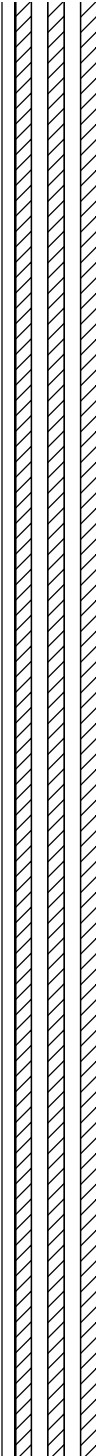
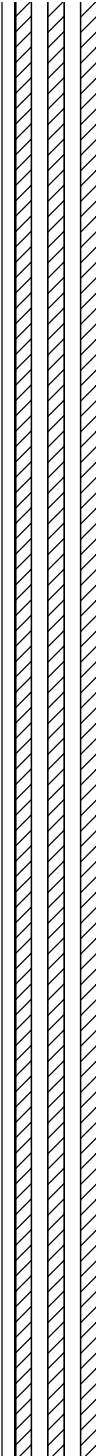
LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR			
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
125							 <div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trac coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		50	
							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded to well rounded gravel, trace silt, wet</div>			
130							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		45	
							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, wet</div>		40	
135							<div>SAND: 2.5Y 7/4 pale yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		35	
140							<div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, wet</div>		30	
145							<div>SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		25	
150							<div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, little fine rounded to well rounded gravel, trace coarse rounded gravel, trace silt, wet</div>			
							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace silt, wet</div>			

LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR				
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
155								SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet		20	
								SAND: 2.5Y 7/6 yellow, medium grained, some fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet			
160								SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse subrounded gravel, trace fine subrounded gravel, trace silt, wet		15	
165										10	
170								SAND: 2.5Y 5/4 light olive brown, fine grained, trace medium sand, trace silt, wet		5	
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace silt, wet			
175								No sample, no recovery.		0	
						SP		SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, wet			
						ML		SILT: 10YR 6/6 brownish yellow, little fine sand, trace coarse sand, trace medium sand, trace fine rounded gravel, wet			
180						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, little fine sand, little fine subrounded to rounded gravel, trace silt, wet		-5	
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace silt, wet			
								SAND: 2.5Y 7/4 pale yellow, medium grained, some fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet			
185								SAND: 2.5Y 6/3 light yellowish brown, fine and medium grained, trace coarse sand, trace silt, wet		-10	

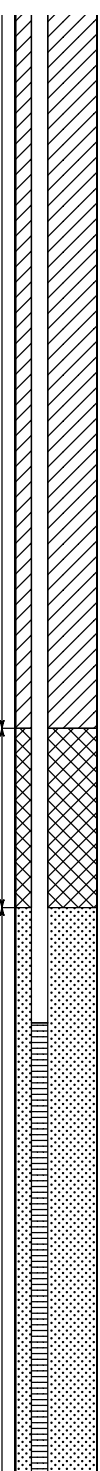
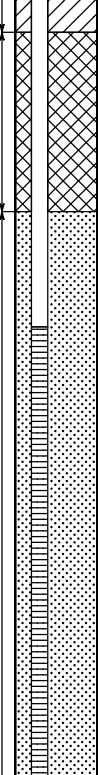
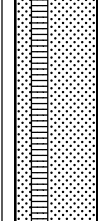
LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR				
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
190											-15
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, wet			
								SAND: 2.5Y 6/3 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace silt, wet			
195								No sample, no recovery.			-20
200						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, some fine sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			-25
								SAND: 2.5Y 7/4 pale yellow, fine grained, little medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace silt, wet			
205								SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet			-30
210						SM		SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, dry			-35
								No sample, no recovery.			
215						SP		SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet			-40
								SAND: 10YR 6/6 brownish yellow, medium grained, little coarse sand, little fine sand, little fine rounded			


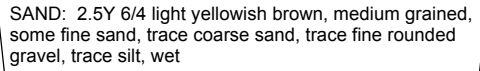
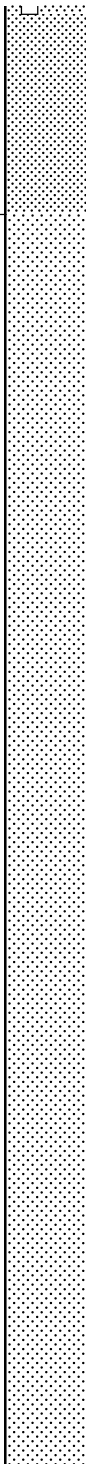

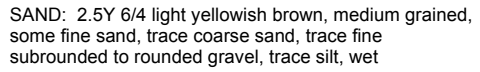
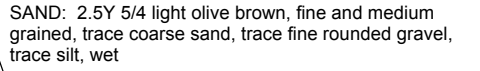
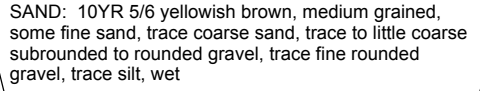
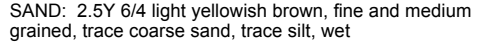
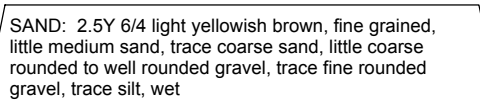
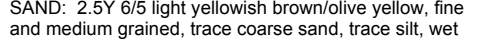

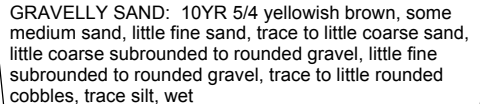
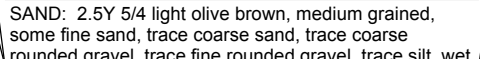
LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR				
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
220											
						SPSM			gravel, trace silt, wet		-45
						SP			SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, trace coarse sand, little coarse rounded gravel, trace fine rounded gravel, trace to little silt, wet		
									SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace fine roudned gravel, trace silt, wet		
225									SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet		-50
									SAND: 10YR 6/6 brownish yellow, fine and medium grained, trace silt, wet		
									SAND: 2.5Y 6/3 light yellowish brown, fine and medium grained, trace coarse sand, trace silt, wet		
230									No sample, no recovery.		-55
235						SP			SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace silt, wet		-60
									SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace silt, wet		
									SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse well rounded gravel, trace fine rounded gravel, trace silt, wet		
240									SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-65
									No sample, no recovery.		
245											-70
250											-75

LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR				
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
255						SP				-80	
							SAND: 2.5Y 7/4 pale yellow, medium grained, some fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet				
							SAND: 5Y 5/4 olive, fine grained, little medium sand, trace silt, wet				
							SAND: 2.5Y 7/6 yellow, fine and medium grained, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, wet				
							SAND: 5Y 5/3 olive, fine grained, little medium sand, trace silt, wet				
260										-85	
							SAND: 2.5Y 6/6 olive yellow, medium grained, some fine sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet				
							No sample, no recovery.				
265										-90	
270										-95	
							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet				
							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet				
							SAND: 2.5Y 5/6 light olive brown, fine grained, trace medium, wet				
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet				
275										-100	
							GRAVELLY SAND: 2.5Y 6/6 olive yellow, some medium sand, little coarse sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet				
280										-105	

LOC ID: MW-354

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR			
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
285							 SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet  SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace fine rounded gravel, trace silt, wet No sample, no recovery.		-110	
290									-115	
295						SP	 SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, wet		-120	
300							 SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, trace coarse sand, trace fine subrounded to rounded gravel, trace silt, wet  SAND: 2.5Y 5/4 light olive brown, fine and medium grained, trace coarse sand, trace fine rounded gravel, trace silt, wet  SAND: 10YR 5/6 yellowish brown, medium grained, some fine sand, trace coarse sand, trace to little coarse subrounded to rounded gravel, trace fine rounded gravel, trace silt, wet  SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace silt, wet		-125	
305							 SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, little coarse rounded to well rounded gravel, trace fine rounded gravel, trace silt, wet  SAND: 2.5Y 6/5 light yellowish brown/olive yellow, fine and medium grained, trace coarse sand, trace silt, wet		-130	
310						ML SP	 SANDY SILT: 2.5Y 5/5 light olive brown, some fine sand, little medium sand, trace coarse sand, wet  GRAVELLY SAND: 10YR 5/4 yellowish brown, some medium sand, little fine sand, trace to little coarse sand, little coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, trace to little rounded cobbles, trace silt, wet  SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-135	
315									-140	

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR		
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
320							<div><div></div><div>SAND: 2.5Y 6/3 light yellowish brown, fine and medium grained, trace coarse sand, trace silt, wet</div></div> <div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, some medium sand, some fine sand, trace coarse sand, some coarse subrounde to rounded gravel, trace fine rounded gravel, trace silt, wet</div></div>	<div><div></div><div>In-situ Soil</div></div> <div><div></div><div>Bentonite Seal</div></div> <div><div></div><div>Bedrock</div></div>	-145
					SM	<div><div></div><div>SAND: 5Y 5/2 olive gray, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine subrounded to rounded gravel, trace silt, wet</div></div>			
325						SPSM	<div><div></div><div>GRAVELLY SAND: 5Y 4/2 olive gray, some fine sand, little coarse sand, little medium sand, little coarse subangular to rounded gravel, little fine subangular to rounded gravel, trace subrounded cobbles, little silt, wet</div></div>		-150
							<div><div></div><div>SAND: 5Y 4/3 olive, fine grained, little medium sand, trace coarse sand, trace to little silt, trace coarse subrounded gravel, trace fine rounded gravel, wet</div></div> <div>No sample, no recovery.</div>		
330									
335						BR	<div><div></div><div>BEDROCK: Competent light gray and red granite bedrock</div></div> <div><div></div><div>BEDROCK: Competent light gray, red and green granite bedrock; light green cover suggests chemical alteration</div></div>		-160
340							No sample, no recovery.		-165
345							<div>Notes: 1. Well Depths MW-354M1: 284.82 ft (BGS) MW-354M2: 245.12 ft (BGS) 2. SCH 80 PVC Screens MW-354M1: 10.00 ft MW-354M2: 10.00 ft 3. Screen lengths MW-354M1: 274.52 - 284.52 ft (BGS) MW-354M2: 234.80 - 244.80 ft (BGS) 4. Screen Intervals MW-354M1: 274.52 - 284.52 ft (BGS) MW-354M2: 234.80 - 244.80 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 175.02 ft (MSL)</div>		-170
Printed on 01/10/07									

Project Name: J-2 RANGE							Location: Coast Guard Com Station, Greenway Road MMR		
Northing: M1: 4618674.05, M2: 4618674.10							Easting: M1: 375115.62, M2: 375115.62		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					2 6 10				

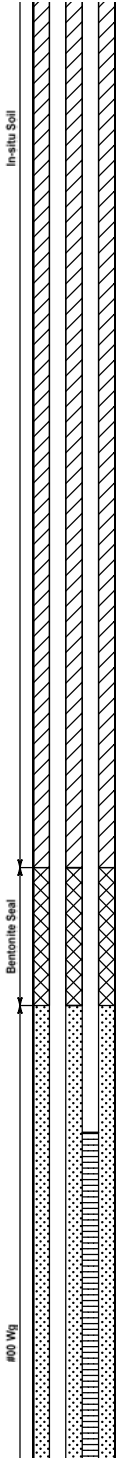
LOC ID: MW-355

Project Name: J-2 RANGE				Location:			
Northing: M1: 4617269.58, S: 4617269.63				Easting: M1: 375061.52, S: 375061.52			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 157.57, S: 157.57 @ Top PVC				
Drilling Equipment: Rotosonic Drill			Well Depth ft (BGS): M1: 230.30, S: 102.95				
Drilling Method: Rotosonic Drill			BH Depth/Diam: 335.00 ft (BGS), 6.00 in.			First Water ft (BGS): 95	
Sampling Method: Submersible Pump			Start/End Date: 10/19/04 - 11/03/04			Well Diameter (in.): 2.50	
Const. Materials SCH 80 PVC			Project Number: 35AY5301			Static Water ft (BTOC): 87.60	
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 08/02/05	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					CPS Conductivity						
					2	6	10				
0											160
								OL	ORGANIC SILT: 10YR 4/3 brown, roots, dry		
								ML	SILT: 2.5Y 5/6 light olive brown		155
5								SM	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, some fine sand, trace fine angular to sub-rounded gravel, angular to sub-rounded gravel, little silt, dry		150
10									SAND: 2.5Y 4/3 olive brown, medium sand, trace coarse sand, some fine sand, trace fine angular to sub-rounded gravel, little silt, dry		145
								SP	SAND: 2.5Y 7/4 pale yellow, medium sand, trace to little coarse sand, trace fine sand, trace silt, dry		140
15								GP	GRAVELLY SAND: 2.5Y 4/3 olive brown, medium sand, little coarse sand, trace fine sand, some coarse sub-rounded gravel, little fine sub-rounded gravel, trace silt, dry		135
20								SM	SAND: 2.5Y 6/4 light yellowish brown, medium sand, some coarse sand, trace fine sand, trace coarse angular to sub-rounded gravel, little fine angular to sub-rounded gravel, little silt, dry	130	
25									SAND: 2.5Y 4/3 olive brown, medium sand, little coarse sand, little fine sand, little fine sub-angular gravel, little silt, dry		
									SAND: 2.5Y 6/4 light yellowish brown, medium sand, some coarse sand, trace fine sand, trace coarse sub-		

[illegible]

LOC ID: MW-355

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
65										90
70										85
75										80
80										75
85										70
90							No sample, no recovery.			65
95						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace to little coarse sand, trace to little fine sand, trace fine sub-angular to sub-rounded gravel, wet			60
100										

LOC ID: MW-355

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
105									55
110									50
115									45
120									40
125									35
130									30
135									25
							SAND: 2.5Y 7/4 pale yellow, medium sand, little fine sand, trace fine sub-angular to sub-rounded gravel, trace silt, wet		
							No sample, no recovery.		
						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, trace fine sand, trace coarse sub-angular to sub-rounded gravel, trace fine sub-angular to sub-rounded gravel, trace cobbles, trace silt, wet		

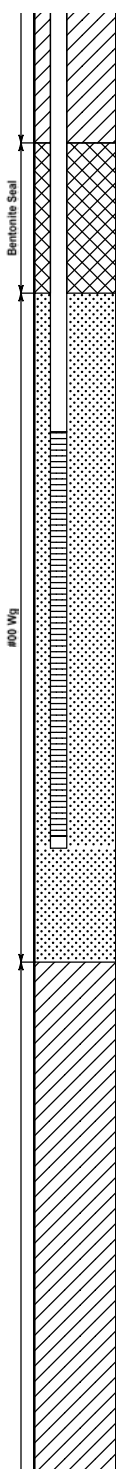
LOC ID: MW-355

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
140										20
						ML	SILT: 2.5Y 5/4 light olive brown, little fine sand, wet			15
145						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, trace fine sand, trace coarse sub-angular to sub-rounded gravel, trace fine sub-angular to sub-rounded gravel, trace cobbles, trace silt, wet			10
150							No sample, no recovery.			5
155						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, trace medium sand, trace fine gravel, some silt, wet			0
160						ML	CLAYEY SILT: 5Y 5/2 olive gray, little fine sand, wet			-5
165										-10
170						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, some			-15

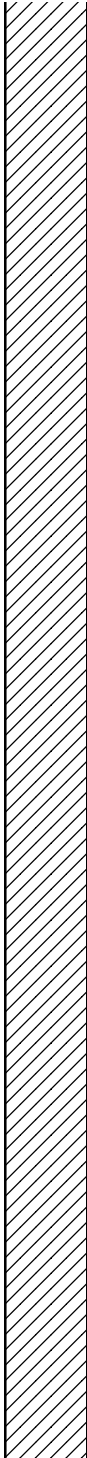
LOC ID: MW-355

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
175								silt, wet		
						ML		SILTY SAND: 10YR 5/6 yellowish brown, fine grained, wet, faint layering		-20
180								SILTY SAND: 10YR 5/4 yellowish brown, fine grained, wet		
								SILT: 5Y 4/2 olive gray, trace to little fine sand, little clay, wet		-25
185						SP		SAND: 2.5Y 5/6 light olive brown, fine sand, little medium sand, wet, mottled		
						ML		SILT: 5Y 4/2 olive gray, trace to little fine sand, little clay, wet		-30
190								SILT: 5Y 5/2 olive gray, moist		-35
195								SILT: 5Y 4/2 olive gray, trace to little fine sand, little clay, wet		-40
200						SM		SAND: 2.5Y 5/4 light olive brown, medium sand, some fine sand, little silt, wet, interbedded with occasional thin layers of silt		-45
205								No sample, no recovery.		-50

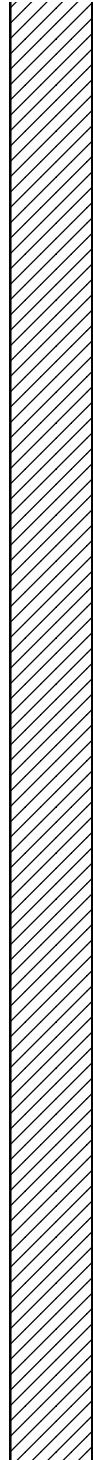
LOC ID: MW-355

Project Name: J-2 RANGE							Location:		
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
210									-55
215						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, little fine sand, trace coarse sub-angular gravel, trace fine sub-angular to sub-rounded gravel, occasional cobbles, trace silt, wet		-60
220									-65
225									-70
230									-75
235									-80
240									-85
245							No sample, no recovery.		

LOC ID: MW-355

Project Name: J-2 RANGE							Location:				
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
250											-90
255											-95
260						SM	SAND: 2.5Y 5/6 light olive brown, medium sand, some coarse sand, little fine sand, little coarse sub-angular to sub-rounded gravel, little fine sub-angular to sub-rounded gravel, occasional cobbles, little silt, wet				-100
265							SAND: 5Y 4/1 dark gray, medium sand, some fine sand, trace fine sub-angular to sub-rounded gravel, cobbles, little silt, wet				-105
270							SAND: 2.5Y 5/4 light olive brown, medium sand, trace coarse sand, little fine sand, trace fine sub-angular to sub-rounded gravel, little silt, wet				-110
275							SAND: 2.5Y 5/4 and 5/6 light olive brown, fine grained, little medium sand, trace fine gravel, little silt, wet				-115
280							SAND: 2.5Y 5/4 and 5/6 light olive brown, fine grained, trace to little medium sand, trace coarse sub-rounded gravel, trace fine sub-rounded gravel, some silt, wet, interlayered with SILT: 2.5Y 4/3 olive brown, little clay, mottled			-120	

LOC ID: MW-355

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617269.58, S: 4617269.63							Easting: M1: 375061.52, S: 375061.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
285										-125
										-130
290							No sample, no recovery.			-135
										-140
295						SM	SAND: 10YR 5/8 yellowish brown, medium sand, trace coarse sand, little fine sand, trace fine gravel, some silt, wet, lightly mottled			-145
										-150
300										-155
										-160
305										-165
										-170
310										-175
										-180
315						ML	SANDY SILT: 2.5Y 5/4 light olive brown, little fine sand, trace coarse sand, little medium sand, little coarse sub-angular to sub-rounded gravel, little fine sub-angular to sub-rounded gravel, cobbles, damp			-185
						SW	SAND: 2.5Y 5/4 light olive brown, fine grained, little coarse sand, little medium sand, little fine angular to sub-rounded gravel, trace cobbles, some silt, wet			-190
						CL	SILTY CLAY: 5Y 4/1 dark gray, little fine sand, little fine angular to sub-rounded gravel, wet (top 6 inches), dry throughout remaining sample. very hard			-195

LOC ID: MW-355

Project Name: J-2 RANGE						Location:			
Northing: M1: 4617269.58, S: 4617269.63						Easting: M1: 375061.52, S: 375061.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
320									
325							No recovery except for some drill-washed gravel and cobbles of various lithologies		
330						BR	BEDROCK: Gray crystalline igneous rock		
335									
340							Notes: 1. Well Depths MW-355M1: 230.30 ft (BGS) MW-355S: 102.95 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-355M1: 10.00 ft MW-355S: 10.00 ft 4. Screen Intervals MW-355M1: 220.00 - 230.00 ft (BGS) MW-355S: 92.65 - 102.65 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 157.86 ft (MSL)		
345							Printed on 01/10/07		

LOC ID: MW-357

[illegible]

LOC ID: MW-357

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618397.33, M2: 4618397.38							Easting: M1: 375488.91, M2: 375488.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100									<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></</div></div>	

LOC ID: MW-357

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618397.33, M2: 4618397.38							Easting: M1: 375488.91, M2: 375488.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150										15
155										10
160										5
165						SP	SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace coarse sand, some medium sand, trace to little silt, wet			0
170										-5
175							SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, some fine sand, trace to little silt, wet			-10
180										-15
185							SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, little medium sand, trace to little silt, wet			-20
190						SM	SILTY SAND: 2.5Y 5/4 light olive brown, fine grained sand, trace medium sand, silts, wet			-25
195										-30
200										-35
							SILTY SAND: 2.5Y 5/4 light olive brown, fine grained			

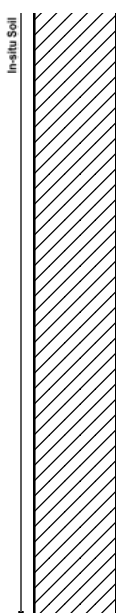
LOC ID: MW-357

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618397.33, M2: 4618397.38							Easting: M1: 375488.91, M2: 375488.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205									<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	

LOC ID: MW-357

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618397.33, M2: 4618397.38							Easting: M1: 375488.91, M2: 375488.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-90
265										-95
270							SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, trace coarse sand, trace medium sand, trace to little fine subangular gravel, trace to little silt, wet			-100
275							SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, trace coarse sand, some medium sand, trace to little silt, wet			-105
280										-110
285							SAND: 2.5Y 6/3 light yellowish brown, medium grained sand, trace coarse sand, some fine sand, trace silt, wet			-115
290										-120
295							SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, trace coarse sand, some medium sand, trace silt, wet			-125
300										-130
305										-135
							SAND: 2.5Y 5/2 grayish brown, fine grained sand, trace coarse sand, little medium sand, little silt, wet			-140

LOC ID: MW-357

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618397.33, M2: 4618397.38							Easting: M1: 375488.91, M2: 375488.91			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										-145
315							SAND: 2.5Y 5/2 grayish brown, medium grained sand, little coarse sand, little fine sand, some coarse and fine subangular gravel, trace silt, wet			-150
320										-155
325										-160
330						BR	BEDROCK: Granitic Bedrock Encountered			-165
335							Notes: 1. Well Depths MW-357M1: 285.03 ft (BGS) MW-357M2: 194.40 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-357M1: 10.00 ft MW-357M2: 10.00 ft 4. Screen Intervals MW-357M1: 274.51 - 284.51 ft (BGS) MW-357M2: 184.08 - 194.08 ft (BGS) 5. Slot Size 6. Surface Elevation: 167.29 ft (MSL)			-170
340									-175	
345									-180	
Printed on 11/01/06										

Printed on 11/01/06

LOC ID: MW-358

Project Name: J-2 RANGE										Location:			
Northing: M1: 4617849.04, M2: 4617849.09										Easting: M1: 375538.70, M2: 375538.70			
Drilling Contractor: D. L. Maher Co.					Elevation ft (MSL): M1: 161.78, M2: 161.78 @ Top PVC								
Drilling Equipment: Rotosonic Drill					Well Depth ft (BGS): M1: 240.69, M2: 188.34								
Drilling Method: Rotosonic Drill					BH Depth/Diam: 349.20 ft (BGS), 6.00 in.				First Water ft (BGS): 95				
Sampling Method: Submersible Pump					Start/End Date: 11/04/04 - 11/17/04				Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC					Project Number: 35AY5301				Static Water ft (BTOC): 91.85				
Logged by: L. Baerga			Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 07/29/05				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10		USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)	
0							OL		ORGANIC SILT: 10YR 3/4 dark yellowish brown, trace medium sand, trace fine sand, roots, dry				160
							ML		SILT: 2.5Y 5/6 light olive brown, trace coarse sand, roots, damp				160
5							SW		SAND: 10YR 5/4 yellowish brown, medium sand, some coarse sand, trace fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, dry				155
10									GRAVELLY SAND: 2.5Y 5/6 light olive brown, medium sand, little coarse sand, some coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, dry, mottled				150
15									GRAVELLY SAND: 2.5Y 4/4 olive brown, medium sand, little coarse sand, trace fine sand, some coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, dry				145
20												140	
25									No sample, no recovery.				
30							SP		SAND: 10YR 4/4 dark yellowish brown, medium sand, little coarse sand, trace to little coarse subangular to subrounded gravel, little fin subangular to subrounded gravel, dry			135	

LOC ID: MW-358

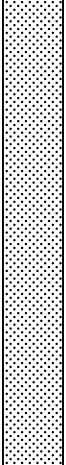
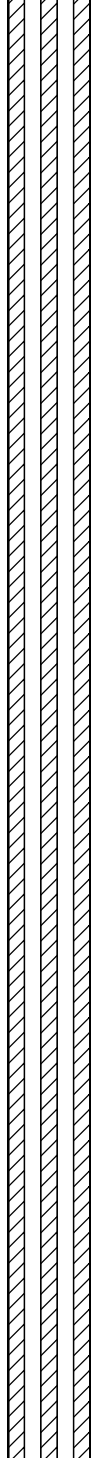
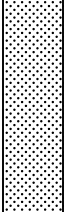
Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
35 <										

LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
70										
						SP	SAND: 2.5Y 7/4 pale yellow, medium sand, trace coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace to little subangular to subrounded gravel, dry			90
75							SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, dry			85
80										80
85										75
90							SAND: 2.5Y 7/4 pale yellow, medium sand, trace coarse sand, trace fine sand, dry			70
95							SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, damp			65
100							SAND: 2.5Y 5/4 light olive brown, medium sand, trace coarse sand, moist			60
							No sample, no recovery.			
105						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, trace fine sand, trace coarse			



LOC ID: MW-358

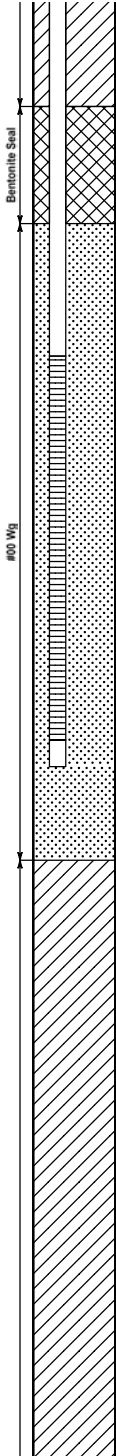
Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
110								subangular to subrounded gravel, trace fine subangular to subrounded gravel, wet		55
115										50
120								No sample, no recovery.		45
125						SP		SAND: 2.5Y 6/4 light yellowish brown, medium sand, little coarse sand, trace fine subangular to subrounded gravel, wet		40
130								No sample, no recovery. Driller reported corer advanced very easily through weak sands. May be similar to 145-155 below.		35
135										30
140										25
										20

Project Name: J-2 RANGE								Location:															
							Northing: M1: 4617849.04, M2: 4617849.09									Easting: M1: 375538.70, M2: 375538.70							
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity			USCS Class	Lithologic Description and Associated Lithographic Symbol												Well Construction Diagram	Elevation (ft msl)	
					<div style="text-align:center;">2 6 10</div>																		
145																							
								SP	[Pattern]	SAND: 2.5Y 6/4 light yellowish brown, fine sand, trace to little medium sand, wet													15
150										No sample, no recovery. Weak fine sands inferred.													10
155																							
160																							0
165								SP	[Pattern]	SAND: 2.5Y 5/6 light olive brown, medium sand, little coarse sand, trace fine gravel, cobbles													-5
170										No sample, no recovery. Weak fine sands inferred.													-10
175																						Bentonite Seal	-15
180																							-20

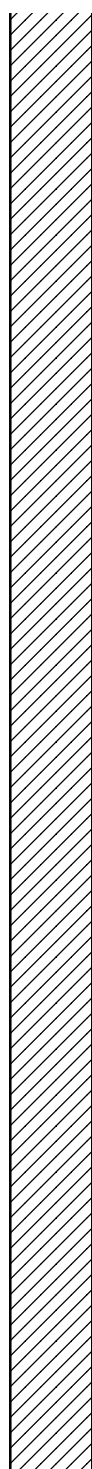
LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
185 										

LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
225										-60
230										-65
235										-70
240						SPSM	SAND: 2.5Y 5/6 light olive brown, fine sand, trace medium sand, trace to little silt, wet			-80
245										-85
250						SM	SAND: 2.5Y 5/4 light olive brown, fine sand, little silt, wet, faint layering		-90	
255										-95
								SAND: 2.5Y 6/4 light yellowish brown, fine sand, little		


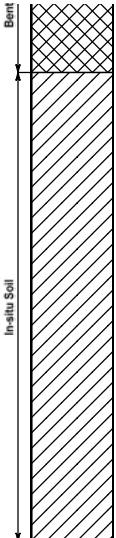

LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-100
265							silt, wet, faint layering			-105
270							SAND: 2.5Y 6/4 light yellowish brown, fine sand, little silt, wet			-110
275							SAND: 2.5Y 6/4 light yellowish brown, medium sand, little fine sand, little silt, wet			-115
280							No sample, no recovery.			-120
285						SP	SAND: 2.5Y 6/4 light yellowish brown, medium sand, little fine sand, trace silt, wet		-125	
290									-130	
295									-135	

LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
300										-140
305						SM	SAND: 2.5Y 6/4 light yellowish brown, medium sand, trace coarse sand, little fine sand, trace fine to little subangular to subrounded gravel, little silt, wet			-145
310						SPGP	GRAVELLY SAND: 2.5Y 5/2 grayish brown, coarse sand, little medium sand, some fine subangular to subrounded gravel, little coarse gravel, wet			-150
315						ML	SILT: 5Y 5/2 olive gray, some coarse subangular to subrounded gravel, cobbles, little fine sand, wet			-155
320							No sample, no recovery. Very difficult drilling from 312.5' to 332' (numerous cobbles present)			-160
325										-165
330										-170
335						GC	CLAYEY GRAVEL: gley 4/ dark gray, coarse and fine angular gravel, trace coarse sand, dry			

LOC ID: MW-358

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617849.04, M2: 4617849.09							Easting: M1: 375538.70, M2: 375538.70			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
340						BR	 SAPROLITE: dark green-gray highly weathered rock, relict crystalline texture, dry			-175
345							 COMPETENT BEDROCK: Black, gray crystalline rock with white, crystal-filled veins. Total depth of boring 349.2' bgs.			-180
350							Notes: 1. Well Depths MW-358M1: 240.69 ft (BGS) MW-358M2: 188.34 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-358M1: 10.00 ft MW-358M2: 10.00 ft 4. Screen Intervals MW-358M1: 230.00 - 240.00 ft (BGS) MW-358M2: 178.00 - 188.00 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 161.68 ft (MSL)			-185
355										-190
360										-195

Printed on 01/10/07

LOC ID: MW-362

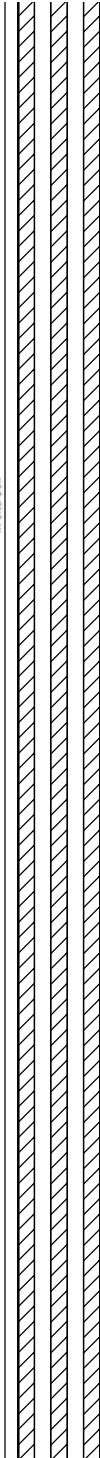
[illegible]

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
35 										

LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
70										
75							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace fine sub-angular gravel, dry			85
80										80
85										75
90							Cobbles			70
95						SP	SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace fine sub-angular gravel, dry			65
100							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace coarse angular to sub-angular gravel, trace fine angular to sub-angular gravel, trace silt, wet			60
105										55

LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
110							No sample, no recovery.		<div>In-situ Soil</div> 	50
115						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace coarse sub-angular to sub-rounded gravel, trace fine sub-angular to sub-rounded gravel, trace silt, cobbles, wet			45
120							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to sub-rounded gravel, wet			40
125										35
130										30
135							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to sub-rounded gravel, wet		25	
140									20	
145							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, wet		15	
							No sample, no recovery.			

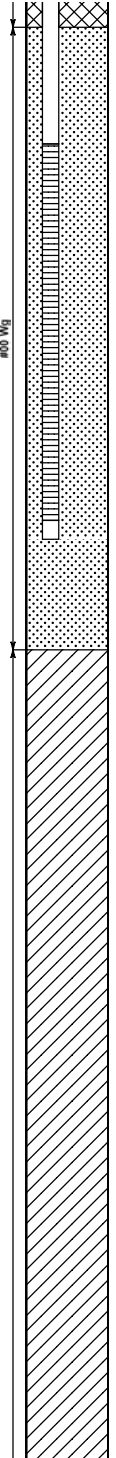
LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150										10
155						SM	SAND: 2.5Y 6/4 light yellowish brown, fine sand, some medium sand, trace to little silt (fine sand alternating with medium sand in 2 ft. layers)			5
160										0
165										-5
170							No sample, no recovery.			-10
175						SP	SAND: 10YR 5/4 yellowish brown, medium sand, little fine sand, trace coarse sand, little coarse angular gravel, small angular cobbles, wet			-15
180							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, faintly laminated, wet			-20
185										-25

LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
190										-30
195										-35
200										-40
205						ML	FINE SANDY SILT: 5Y 4/1 dark gray, trace clay, wet, massive structure			-45
210										-50
215						SM	SAND: 2.5Y 5/2 grayish brown, fine sand, trace to little silt, wet			-55
							SAND: 5Y 4/1 dark gray, fine grained, some silt, wet			
						ML	SANDY SILT: 5Y 5/2 olive gray, fine sand, trace clay, wet			
220						SP	SAND: 7.5YR 6/6 reddish yellow, medium grained, some fine sand, trace silt, wet 6 inch layer of coarse sand, some gravel, cobbles at 221 feet			-60
225							No sample, no recovery. Probable fine sand flowed out of core barrel.			-65

LOC ID: MW-362


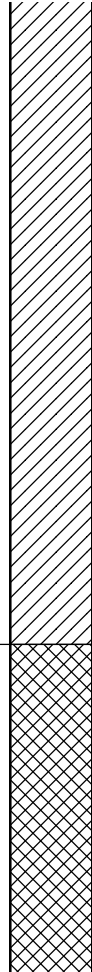
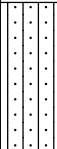
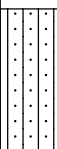
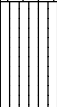
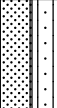
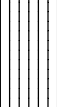

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
230										-70
235						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little silt, wet			-75
240										-80
245										-85
250							No sample, no recovery. Probable fine sand flowed out of core barrel.			-90
255										-95
260										-100



LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
265										-105
270										-110
275						SP	SAND: 2.5Y 5/4 light olive brown medium sand, some fine sand, trace coarse sand, trace to little coarse angular gravel, cobbles, trace silt, wet			-115
280										-120
285										-125
290							SAND: 2.5Y 5/2 grayish brown, medium grained, trace to little coarse sand, trace to little fine sand, trace fine angular to sub-angular gravel, trace silt, wet			-130
295										-135
300						GM	SANDY GRAVEL: 5Y 4/2 olive gray, fine sub-angular gravel, little coarse sub-rounded to sub-angular gravel, cobbles, some coarse sand, little medium sand, trace fine sand, little silt, wet			-140
						SW	GRAVELLY SAND: 5Y 4/2 olive gray, medium grained,			

LOC ID: MW-362

Project Name: J-2 RANGE							Location:			
Northing: M1: 4617405.90, M2: 4617405.95							Easting: M1: 375507.77, M2: 375507.77			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
305								little coarse sand, trace fine sand, little coarse angular to sub-angular gravel, little fine angular to sub-angular gravel, trace silt, wet		-145
						SM		SAND: 5Y 5/2 olive gray, medium grained, little coarse sand, little fine sand, trace coarse sub-angular gravel, little fine sub-angular gravel, little silt, wet		
310								No sample, no recovery.		-150
315										-155
						SM		SAND: 5Y 5/2 olive gray, fine grained, trace coarse sand, trace medium sand, trace fine angular gravel, little silt, wet		
320						ML		SILT: 5Y 5/2 olive gray, trace fine sand, trace fine sub-angular gravel, damp		-160
325						SPSM		SAND: 5Y 5/2 olive gray, coarse sand, little medium sand, little fine sand, little fine angular to sub-angular gravel, trace to little silt, wet		-165
						ML		SILT: 5Y 5/2 olive gray, trace fine sand, trace fine sub-angular gravel, dry		
330						BR		Bedrock	-170	
335							Notes: 1. Well Depths MW-362M1: 239.50 ft (BGS) MW-362M2: 180.50 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-362M1: 10.00 ft MW-362M2: 10.00 ft 4. Screen Intervals MW-362M1: 229.00 - 239.00 ft (BGS) MW-362M2: 170.00 - 180.00 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 159.43 ft (MSL)		-175	
340							Printed on 01/10/07		-180	

LOC ID: MW-365

Project Name: J-2 RANGE						Location:							
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79						Easting: M1: 375057.48, M2: 375057.48, S: 375057.48							
Drilling Contractor: D. L. Maher Co.				Elevation ft (MSL): M1: 156.41, M2: 156.41, S: 156.41 @ Top PVC									
Drilling Equipment: Dual Air Rotary				Well Depth ft (BGS): M1: 286.01, M2: 215.81, S: 103.32									
Drilling Method: DUAL ROTARY				BH Depth/Diam: 316.00 ft (BGS), 8.00 in.					First Water ft (BGS): 100				
Sampling Method: Stainless Steel Bailer				Start/End Date: 01/10/05 - 04/12/05					Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC				Project Number: 35AY5301					Static Water ft (BTOC): 86.89				
Logged by: S. Mixan			Reviewed by: Larry Pannell			Completion: Flushmount			Date Measured: 12/13/05				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS Conductivity 2 6 10		USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram	Elevation (ft msl)
							SM	<div style="background-image: radial-gradient(black 1px, transparent 0); background-size: 4px 4px;"></div>	SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, some medium sand, silts, moist	<div style="position: relative; height: 300px;"><div style="position: absolute; top: 0; left: 0;">M1 M2 S</div><div style="position: absolute; right: 0; bottom: 0;">↑</div></div>			
									SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace silt, dry				
									SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace to little medium sand, trace silt, dry				

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79							Easting: M1: 375057.48, M2: 375057.48, S: 375057.48		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace subangular gravel, trace silt, dry		115
							SAND: 2.5Y 5/3 light olive brown, fine grained, little medium sand, trace coarse sand, trace silt, dry		110
							SAND: 2.5Y 5/4 light olive brown, fine grained, little coarse sand, some medium sand, trace silt, dry		105
									100
							SAND: 2.5Y 5/4 light olive brown, fine grained, trace to little coarse sand, some medium sand, trace to little fine subangular gravel, trace silt, dry		95

LOC ID: MW-365

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79							Easting: M1: 375057.48, M2: 375057.48, S: 375057.48		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
85									70
90									65
95									60
100							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, some fine sand, trace fine subrounded gravel, trace silt, moist		55
105							SAND: 2.5Y 4/3 olive brown, fine grained, little medium sand, trace to little fine subangular gravel, trace to little silt, wet		50
110									45
115							SAND: 2.5Y 5/3 light olive brown, coarse grained, some medium sand, little fine sand, little fine subangular gravel, trace to little silt, wet		40
120									35
125						SM	SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, trace to little medium sand, silts, wet		30

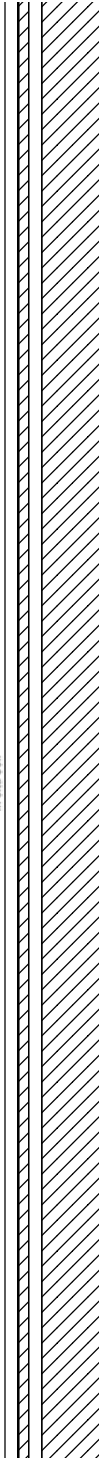
LOC ID: MW-365

Project Name: J-2 RANGE							Location:				
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79							Easting: M1: 375057.48, M2: 375057.48, S: 375057.48				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
130											25
135						SP	SAND: 2.5Y 5/3 light olive brown, medium grained, some fine sand, trace subrounded fine gravel, trace silt, wet				20
140											15
145							SAND: 2.5Y 5/4 light olive brown, fine grained, some medium sand, trace coarse sand, trace to little silt, wet				10
150											5
155							SAND: 2.5Y 5/3 light olive brown, fine grained, little medium sand, trace to little silt, wet				0
160											-5
165											-10
170						SM	SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, silts, wet				-15

LOC ID: MW-365

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79							Easting: M1: 375057.48, M2: 375057.48, S: 375057.48			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
175										-20
180						SP	SAND: 2.5Y 4/3 olive brown, fine grained, little medium sand, some silt, wet			-25
185						SM	SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, trace medium sand, silts, wet			-30
190										-35
195							SILTY SAND: 2.5Y 5/3 light olive brown, fine grained sand, little medium sand, silts, wet			-40
200										-45
205										-50
210										-55
215						SP	SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, some fine sand, little silt, wet			-60

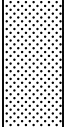
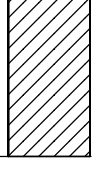
LOC ID: MW-365

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79							Easting: M1: 375057.48, M2: 375057.48, S: 375057.48			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
220										-65
225										-70
230										-75
235							SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, some fine sand, little silt, wet			-80
240							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, some medium sand, little silt, wet			-85
245							SAND: 2.5Y 5/3 light olive brown, medium grained, trace coarse sand, some fine sand, trace to little fine to coarse subangular gravel, trace silt, wet			-90
250										-95
255										-100
260										-105
265						SM	SILTY SAND: 2.5Y 5/6 light olive brown, fine grained sand, silts, wet			

LOC ID: MW-365

Project Name: J-2 RANGE						Location:		
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79						Easting: M1: 375057.48, M2: 375057.48, S: 375057.48		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram Elevation (ft msl)
270								-110
275								-115
280								-120
285							SILTY SAND: 2.5Y 4/4 olive brown, fine grained sand, silts, wet	-125
290								-130
295							SILTY SAND: 2.5Y 4/3 olive brown, fine grained sand, trace medium sand, silts, higher plasticity observed, wet	-135
300								-140
305						SP	SAND: 2.5Y 5/1 gray, medium grained, trace coarse sand, little fine sand, trace silt, wet	-145
310							SAND: 2.5Y 4/1 dark gray, medium grained, trace to	-150

LOC ID: MW-365

Project Name: J-2 RANGE						Location:			
Northing: M1: 4618130.69, M2: 4618130.74, S: 4618130.79						Easting: M1: 375057.48, M2: 375057.48, S: 375057.48			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram Elevation (ft msl)
315						BR	 little coarse sand, little fine sand, trace to little fine to coarse subangular gravel, trace silt, wet		-155
							BEDROCK: granitic bedrock encountered		-160
320							Notes: 1. Well Depths MW-365M1: 286.01 ft (BGS) MW-365M2: 215.81 ft (BGS) MW-365S: 103.32 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-365M1: 10.00 ft MW-365M2: 10.00 ft MW-365S: 10.00 ft 4. Screen Intervals MW-365M1: 275.54 - 285.54 ft (BGS) MW-365M2: 205.52 - 215.52 ft (BGS) MW-365S: 92.86 - 102.86 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 156.16 ft (MSL)		-165
325									-170

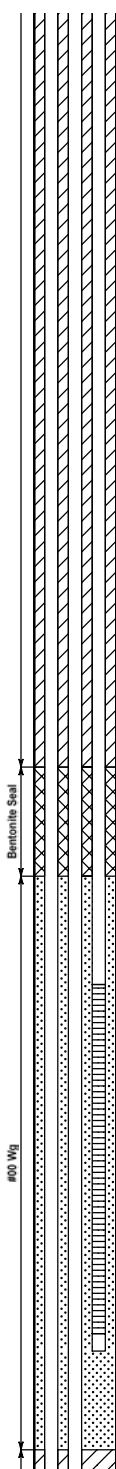
LOC ID: MW-366

[illegible]

LOC ID: MW-366

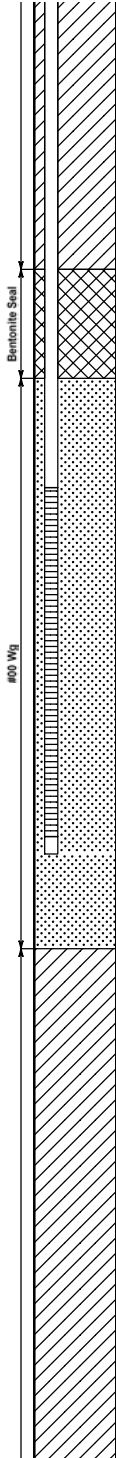
Project Name: J-2 RANGE							Location:		
Northing: M1: 4618464.87, M2: 4618464.92, M3: 4618464.97							Easting: M1: 374321.37, M2: 374321.37, M3: 374321.37		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
80									75
85									70
90									65
95									60
100							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, some fine sand, trace to little fine subrounded gravel, trace silt, very moist		55
105							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, little silt, wet		50
110									45
115							SAND: 2.5Y 6/4 light yellowish brown, coarse grained, some medium sand, trace to little fine sand, trace to little fine subangular gravel, trace silt, wet		40

LOC ID: MW-366

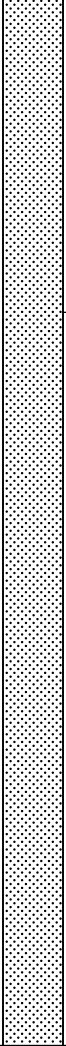
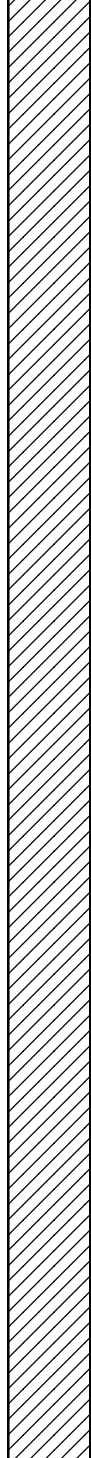
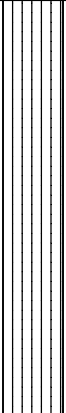
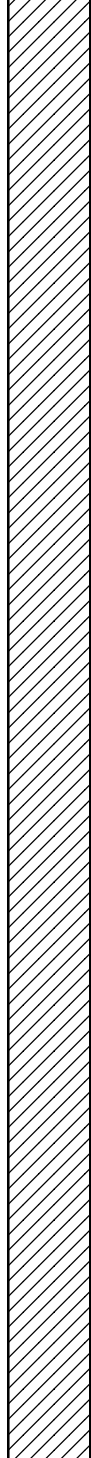
Project Name: J-2 RANGE							Location:		
Northing: M1: 4618464.87, M2: 4618464.92, M3: 4618464.97							Easting: M1: 374321.37, M2: 374321.37, M3: 374321.37		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
120									35
125									30
130									25
135							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, little silt, wet		20
140							SAND: 2.5Y 5/3 light olive brown, medium grained, some fine sand, trace subrounded fine gravel, trace silt, wet		15
145								10	
150								5	
155							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, some medium sand, trace silt, wet	0	
								-5	

[illegible]

LOC ID: MW-366

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618464.87, M2: 4618464.92, M3: 4618464.97							Easting: M1: 374321.37, M2: 374321.37, M3: 374321.37			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205										-50
210										-55
215										-60
220										-65
225						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, little fine sand, little fine subangular gravel, trace silt, wet			-70
230										-75
235										-80
240										-85

LOC ID: MW-366

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618464.87, M2: 4618464.92, M3: 4618464.97							Easting: M1: 374321.37, M2: 374321.37, M3: 374321.37			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
245							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, some medium sand, trace to little silt, wet			-90
250										-95
255										-100
260										-105
265							SANDY SILT: 2.5Y 5/6 light olive brown, fine grained sand, silts, very moist			-110
270										-115
275						ML				-120
280										-125
285										-130

LOC ID: MW-366

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618464.87, M2: 4618464.92, M3: 4618464.97							Easting: M1: 374321.37, M2: 374321.37, M3: 374321.37			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
290						SM	SILTY SAND: 2.5Y 5/3 light olive brown, fine grained sand, trace medium sand, silts, very moist			-135
295						ML	SANDY SILT: 2.5Y 5/6 light olive brown, very fine grained sand, silts, very moist			-140
300						GP	SANDY GRAVEL: 2.5Y 5/2 grayish brown, fine to coarse sands, fine to coarse subangular gravel, trace silt, wet			-145
305										-150
310						BR	BEDROCK: granitic bedrock encountered			-155
315										-160
320										-165
							Notes: 1. Well Depths MW-366M1: 225.50 ft (BGS) MW-366M2: 185.50 ft (BGS) MW-366M3: 155.50 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-366M1: 10.00 ft MW-366M2: 10.00 ft MW-366M3: 10.00 ft 4. Screen Intervals MW-366M1: 215.00 - 225.00 ft (BGS) MW-366M2: 175.00 - 185.00 ft (BGS) MW-366M3: 145.00 - 155.00 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 153.13 ft (MSL)			


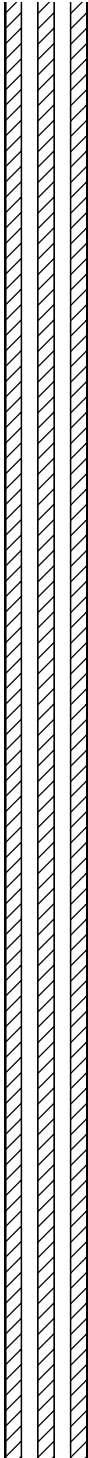



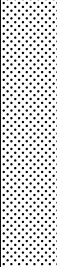



LOC ID: MW-367

Project Name: J-2 RANGE						Location: 12 Farrell Drive, Sandwich						
Northing: M1: 4617600.24, M2: 4617600.29						Easting: M1: 374990.52, M2: 374990.52						
Drilling Contractor: D. L. Maher Co.				Elevation ft (MSL): M1: 153.97, M2: 153.97 @ Top PVC								
Drilling Equipment: Rotosonic Drill				Well Depth ft (BGS): M1: 215.45, M2: 177.44								
Drilling Method: Rotosonic Drill				BH Depth/Diam: 325.00 ft (BGS), 8.00 in.				First Water ft (BGS): 85				
Sampling Method: Submersible Pump				Start/End Date: 03/01/05 - 03/17/05				Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC				Project Number: 35AY5301				Static Water ft (BTOC): 81.76				
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount				Date Measured: 10/09/06				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS 20 45 70 Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram	Elevation (ft msl)
0												155
						GW	FILL: Dense-grade fill					
						SMSW	GRAVELLY SAND: 10YR 5/4 yellowish brown, medium grained sand, little coarse sand, trace fine sand, some coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, trace to little silt, damp					
5						SP	SAND: 10YR 6/8 brownish yellow, medium grained, trace coarse sand, trace to little fine sand, cobbles, trace silt, dry					150
						SMSW	GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, trace to little fine sand, some coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, trace to little silt, dry					
10						SP	SAND: 10YR 6/6 brownish yellow, medium grained, little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace silt, dry					145
						SMSW	GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, trace to little fine sand, trace little coarse subangular to subrounded gravel, some fine subangular to subrounded gravel, cobbles, trace to little silt, dry					140
15						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace to little fine subangular to subrounded gravel, trace silt, dry					135
20							No sample, no recovery					
25						SP	SAND: 10Y 5/4 to 6/4 light olive brown to light yellowish brown, medium grained, little coarse sand, trace to little fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, trace silt, dry					130
30							SAND: 2.5Y 7/4 pale yellow, medium grained, little					125

LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
35										120
								coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, trace silt, dry		
								No sample, no recovery		
						SMSW		SAND: 2.5Y 4/4 olive brown, medium grained, trace to little coarse sand, trace to little fine sand, little coarse subangular to subrounded gravel, trace to little fine subangular to subrounded gravel, trace to little silt, dry		
40						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace fine sand, trace fine subangular to subrounded gravel, cobbles, trace silt, dry		115
								SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace to little fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, dry		
								No sample, no recovery		110
45						SP		SAND: 10YR 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, cobbles, trace silt, dry		105
50								No sample, no recovery		100
55						SMSW		SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace to little fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, trace to little silt, dry		95
60						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace subangular to subrounded gravel, trace silt, dry		
								No sample, no recovery		90
65						SW		SAND: 10YR 5/4 yellowish brown, medium grained, little coarse sand, trace fine sand, trace to little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace silt, dry		
						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace coarse subangular		

LOC ID: MW-367

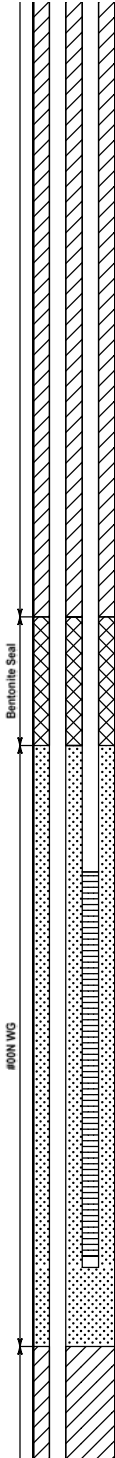
Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
70							 to subrounded gravel, trace fine subangular to subrounded gravel, trace silt, dry		85	
75						SPSM 	SAND: 2.5Y 5/6 light olive brown, fine grained, little coarse sand, some medium sand, trace to little coarse angular to subrounded gravel, little fine angular to subrounded gravel, little silt, dry		80	
80						SP 	SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, some fine sand, trace fine subangular gravel, trace silt, dry		75	
85							No sample, no recovery		70	
90						SP 	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, little fine sand, trace to little coarse subangular to subrounded gravel, trace to little fine subangular to subrounded gravel, trace to little silt, dry/damp SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, damp/wet		65	
95							No sample, no recovery		60	
100						SP 	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace coarse subangular gravel, trace fine subangular gravel, trace silt, wet SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, some fine sand, trace coarse subangular gravel, trace fine subangular gravel, trace silt, wet SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace coarse subangular gravel, trace to little fine subangular gravel, trace silt, wet		55	
105							No sample, no recovery		50	



LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
110										45
115						SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace coarse subangular gravel, trace fine subangular gravel, cobbles, trace silt, wet			40
120							SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace to little fine sand, little coarse subangular gravel, little fine subangular gravel, trace silt, wet			35
125							No sample, no recovery			30
130										25
135						SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular gravel, trace silt, wet			20
						SPSM	SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, little medium sand, trace to little silt, wet			15
140						SP	SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, cobbles, trace silt, wet			10

LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
145										
								SAND: 2.5Y 5/6 light olive brown, medium grained, trace coarse sand, trace fine sand, trace fine subangular gravel, trace silt, wet		5
150								No sample, no recovery		0
155						SP		SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, trace silt, wet		-5
160										
165								SAND: 10YR 7/6 yellow, medium grained, some coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, trace silt, wet		-10
170								No sample, no recovery		-15
175						SM		SAND: 2.5Y 5/6 light olive brown, medium grained, trace coarse sand, little fine sand, little silt, wet		-20
180						SW		GRAVELLY SAND: 2.5Y 5/6 light olive brown, coarse grained sand, little medium sand, trace fine sand, little coarse subangular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet	-25	

LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
185										-30
190							No sample, no recovery			-35
195						SW	GRAVELLY SAND: 2.5Y 5/6 light olive brown, coarse grained sand, little medium sand, trace fine sand, little coarse subangular to subrounded gravel, some fine angular to subrounded gravel, cobble, trace silt, wet			-40
200							GRAVELLY SAND: 2.5Y 5/6 light olive brown, coarse grained sand, little medium sand, trace fine sand, little coarse subangular to subrounded gravel, some fine subangular to subrounded gravel, cobble, trace silt, wet			-45
205							GRAVELLY SAND: 2.5Y 5/6 light olive brown, coarse grained sand, little medium sand, trace fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobble, trace silt, wet			-50
210										-55
215							No sample, no recovery			-60
220						SPSM	SAND: 2.5Y 6/4 light yellowish brown, coarse grained sand, little medium sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine angular to subrounded gravel, trace to little silt, wet			-65



LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
225										-70
230							No sample, no recovery			-75
235						SP	SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace to little fine sand, trace fine angular to subrounded gravel, trace silt, wet			-80
240						GP	SANDY GRAVEL: 2.5Y 6/6 olive yellow, coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little coarse sand, little medium sand, trace fine sand, cobbles, trace silt, wet			-85
						SW				
						SP	GRAVELLY SAND: 5Y 5/2 olive gray, medium grained sand, trace coarse sand, little fine sand, little coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, cobbles, trace to little silt, wet			
245							SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, trace to little fine sand, trace silt, wet			-90
							No sample, no recovery			-95
250										
255						SW	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, little fine sand, little coarse subangular to subrounded gravel, little fine angular to subrounded gravel, little silt, wet			-100

LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260									<div>In-situ Soil</div>	-105
						SC	CLAYEY SAND: 2.5Y 5/1 gray, fine grained sand, trace to little coarse sand, little medium sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, little silt, dry			
265						ML	SILT: 2.5Y 6/4 light yellowish brown, trace coarse grained sand, little medium sand, little fine sand, little fine gravel, trace clay, dry/damp			-110
						SPSM	SAND: 10YR 5/6 yellowish brown, medium grained, trace coarse sand, little fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, trace to little silt, wet			-115
270							No sample, no recovery			-120
275						SP	SAND: 2.5Y 6/4 to 7/4 light yellowish brown to pale yellow, medium grained, trace coarse sand, little fine sand, trace coarse subangular to subrounded gravel, trace fine subangular to subrounded gravel, cobbles, trace silt, wet			-125
280										-130
285										-135
290						SM	SAND: 2.5Y 7/4 to 7.5Y 7/8 pale yellow to reddish yellow, medium grained, trace coarse sand, little fine sand, trace coarse subangular to subrounded gravel, trace to little fine subangular to subrounded gravel, cobbles, little silt, wet			
							No sample, no recovery		-140	
295						SP	SAND: 2.5Y 6/3 light yellowish brown, fine grained, trace coarse sand, trace to little medium sand, trace silt, wet			

LOC ID: MW-367

Project Name: J-2 RANGE							Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29							Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
300										-145
305							SAND: 10YR 5/2 grayish brown, medium grained, trace to little coarse sand, trace fine sand, trace to little fine angular gravel, trace silt, wet			-150
310						GM	GRAVEL: 2.5Y 4/3 olive brown, coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace coarse sand, little medium sand, little fine sand, little silt, trace clay, wet			-155
315						GM	No sample, no recovery			-160
320						BR	BEDROCK: Gray crystalline rock with green olivine crystals			-165
325										-170
330							Notes: 1. Well Depths MW-367M1: 215.45 ft (BGS) MW-367M2: 177.44 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-367M1: 10.00 ft MW-367M2: 10.00 ft 4. Screen Intervals MW-367M1: 205.15 - 215.15 ft (BGS) MW-367M2: 167.14 - 177.14 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 154.13 ft (MSL)			-175
335										-180

LOC ID: MW-367

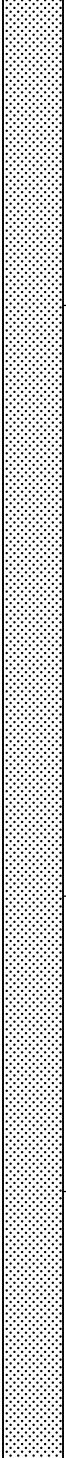
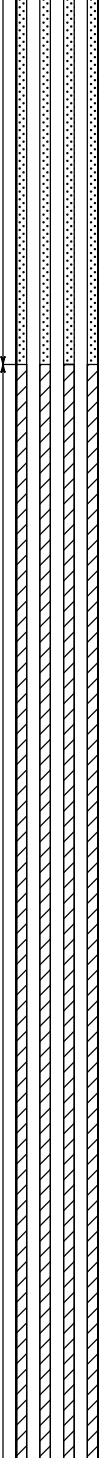
Project Name: J-2 RANGE						Location: 12 Farrell Drive, Sandwich			
Northing: M1: 4617600.24, M2: 4617600.29						Easting: M1: 374990.52, M2: 374990.52			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
							Printed on 01/10/07		

LOC ID: MW-368

Project Name: J-2 RANGE				Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92				Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 171.28, M2: 171.28, M3: 171.28 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 247.62, M2: 213.26, M3: 165.72				
Drilling Method: DUAL ROTARY			BH Depth/Diam: 350.65 ft (BGS), 8.00 in.		First Water ft (BGS): 110		
Sampling Method: Stainless Steel Bailer			Start/End Date: 04/12/05 - 05/13/05		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 100.71		
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 03/27/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0								PT	Topsoil, loam, roots		175
5								SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace fine angular gravel, dry		170
10									GRAVELLY SAND: 2.5Y 7/4 pale yellow, medium grained sand, little coarse sand, trace fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, dry		165
15									GRAVELLY SAND: 2.5Y 7/4 pale yellow, medium grained sand, little coarse sand, trace fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, dry		160
20									GRAVELLY SAND: 2.5Y 5/6 light olive brown, medium grained sand, little coarse sand, trace fine sand, trace coarse angular to subangular gravel, some fine angular to subangular gravel, trace silt, dry		155
25											150
30											145
35								CM	COBBLES		140
								SP	SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, trace fine sand, trace fine angular to		135

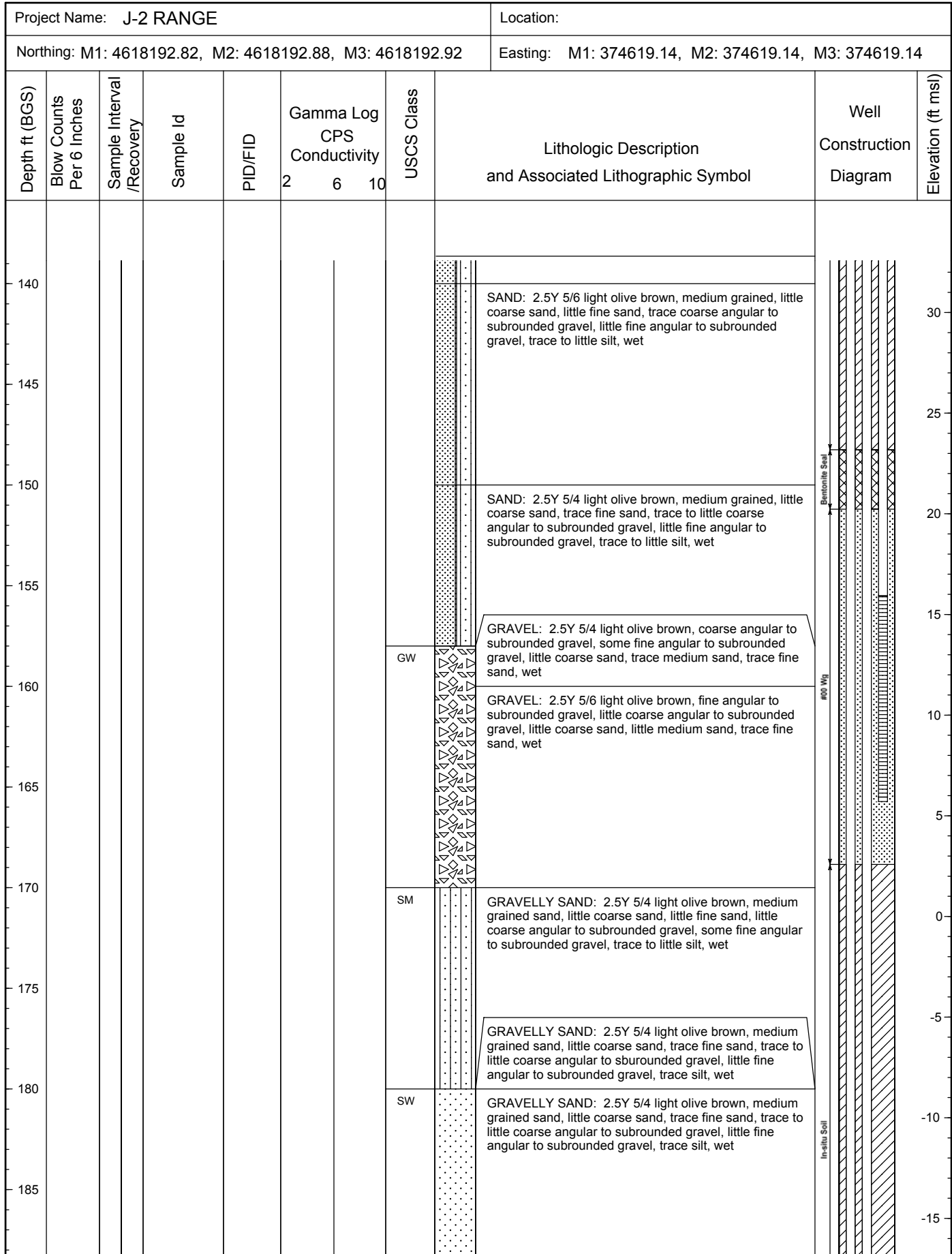
LOC ID: MW-368

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40								subrounded gravel, trace silt, dry		130
45										125
50										120
55							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine angular to subangular gravel, dry			115
60										110
65										105
70							SAND: 2.5Y 7/4 pale yellow, medium grained, some coarse sand, trace to little fine sand, trace fine angular to subrounded gravel, trace silt, dry			100
75										95
80										90
85							SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, trace to little fine sand, trace fine subangular to subrounded gravel, trace silt, dry			85

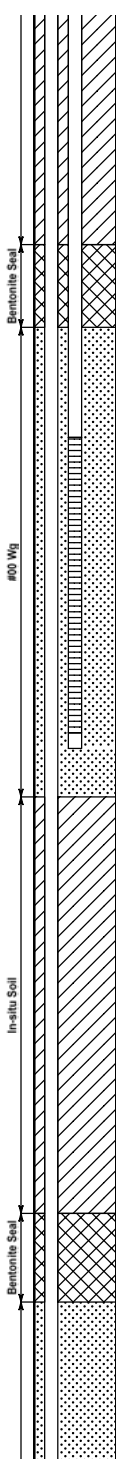
LOC ID: MW-368

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
90										80
95								SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, dry		75
100								SAND: 2.5Y 7/4 pale yellow, medium grained, trace coarse sand, some fine sand, trace fine angular to subrounded gravel, trace silt, dry		70
105								SAND: 2.5Y 7/4 pale yellow, medium grained, trace to little coarse sand, little fine sand, trace fine angular to subrounded gravel, trace silt, dry		65
110						SM		SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular to subangular gravel, little silt, wet		60
115										55
120						SP		GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, coarse grained sand, trace medium sand, little coarse subangular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet		50
125										45
130						SPSM		SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, trace to little silt		40
135										35

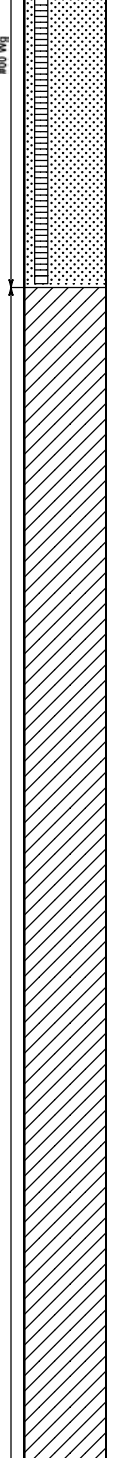
LOC ID: MW-368



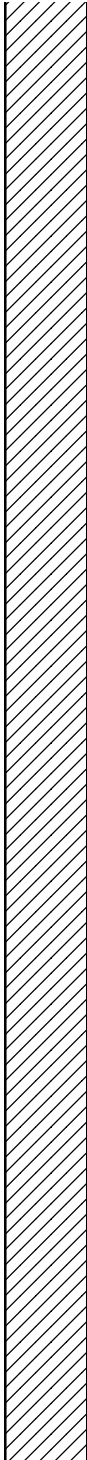
LOC ID: MW-368

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
190									-20
195						GP	SANDY GRAVEL: 2.5Y 6/4 light yellowish brown, fine angular to subrounded gravel, some coarse angular to subrounded gravel, little coarse sand, trace to little medium sand, trace fine sand, wet		-25
200							SANDY GRAVEL: 2.5Y 6/4 light yellowish brown, fine angular to subrounded gravel, little coarse angular to subrounded gravel, little coarse sand, trace to little medium sand, wet		-30
205						SP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, coarse grained sand, little medium sand, trace coarse angular to subrounded gravel, some fine angular to subrounded gravel, wet		-35
210							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, trace to little coarse angular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet		-40
215									-45
220						SM	SAND: 2.5Y 5/4 light olive brown, very fine grained, some silt, trace clay, wet		-50
225						SW	GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, trace fine sand, trace to little coarse angular to subrounded gravel, some fine angular to subrounded gravel, trace to little silt, trace clay, wet		-55
230						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, little medium sand, some silt, trace fine angular to subrounded gravel, wet		-60
235						ML	SANDY SILT: 5Y 5/3 olive, trace to little coarse grained sand, little medium sand, little fine sand, trace fine angular to subrounded gravel, little clay, wet		-65
						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, some silt, wet		

LOC ID: MW-368

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
240							<p>SAND: 5Y 5/2 olive gray, fine grained, trace coarse sand, little medium sand, trace fine angular to subrounded gravel, some silt, trace clay, wet</p> <p>SAND: 5Y 5/2 olive gray, fine grained, trace to little coarse sand, little medium sand, trace to little fine angular to subrounded gravel, some silt, wet</p> <p>SAND: 5Y 5/2 olive gray, fine grained, trace coarse sand, little medium sand, little fine angular to subrounded gravel, some silt, wet</p> <p>SAND: 2.5Y 5/6 light olive brown, fine grained, trace to little coarse sand, trace medium sand, trace to little coarse angular to subrounded gravel, trace to little fine angular to subrounded gravel, some silt, trace clay, wet</p> <p>SAND: 2.5Y 5/6 light olive brown, very fine grained, some silt, trace to little clay, wet</p>			-70
245										-75
250										-80
255										-85
260										-90
265										-95
270										-100
275										-105
280										-110
285										-115

LOC ID: MW-368

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
290										-120
295							SAND: 2.5Y 5/6 light olive brown, very fine grained, little silt, wet			-125
300							SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, trace medium sand, little silt, wet			-130
305										-135
310						SC	CLAY: based on drilling air pressure, no distinct soil cuttings from this depth			-140
315										-145
320						ML	SILT: 2.5Y 5/6 light olive brown, some fine grained sand, trace clay, wet			-150
325						SC	CLAY: based on drilling air pressure, no distinct soil cuttings from this depth			-155
330										-160
335						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained,			-165

LOC ID: MW-368

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618192.82, M2: 4618192.88, M3: 4618192.92							Easting: M1: 374619.14, M2: 374619.14, M3: 374619.14			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
340								trace medium sand, some silt, trace clay, wet		
						SMSC		SAND: 2.5Y 6/4 light yellowish brown, fine grained, some silt, little clay, wet		-170
345						SWSM		GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, some fine angular to subrounded gravel, little silt, wet		-175
350						BR		BEDROCK: fine angular gravel sized, pink and black fragments of granitic rock		-180
355								Notes: 1. Well Depths MW-368M1: 247.62 ft (BGS) MW-368M2: 213.26 ft (BGS) MW-368M3: 165.72 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-368M1: 10.00 ft MW-368M2: 10.00 ft MW-368M3: 10.00 ft 4. Screen Intervals MW-368M1: 237.35 - 247.35 ft (BGS) MW-368M2: 202.73 - 212.73 ft (BGS) MW-368M3: 155.50 - 165.50 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 171.43 ft (MSL)		-185
360										-190

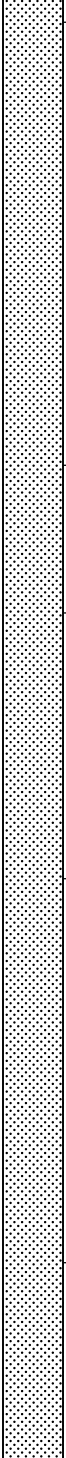
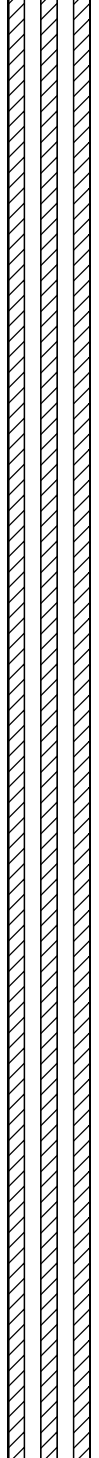
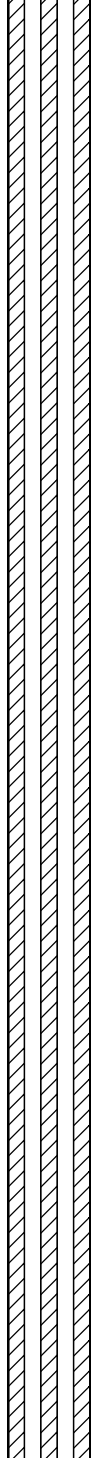
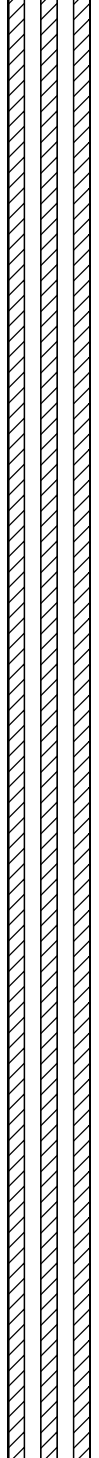
LOC ID: MW-372

Project Name: J-2 RANGE					Location:						
Northing: D: 4618810.40, M1: 4618810.45					Easting: D: 375466.33, M1: 375466.33						
Drilling Contractor: D. L. Maher Co.				Elevation ft (MSL): D: 173.35, M1: 173.35 @ Top PVC							
Drilling Equipment: Dual Air Rotary				Well Depth ft (BGS): D: 311.12, M1: 283.58							
Drilling Method: DUAL ROTARY				BH Depth/Diam: 315.00 ft (BGS), 8.00 in.			First Water ft (BGS): 110				
Sampling Method: Stainless Steel Bailer				Start/End Date: 05/16/05 - 06/14/05			Well Diameter (in.): 2.50				
Const. Materials SCH 80 PVC				Project Number: 35AY5301			Static Water ft (BTOC): 104.25				
Logged by: T. Woodson		Reviewed by: Larry Pannell, PG			Completion: Flushmount			Date Measured: 03/14/06			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS Conductivity 20 45 70 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol			Well Construction Diagram	Elevation (ft msl)
0						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse angular gravel, little fine subangular gravel, trace silt, dry				175
5							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace fine subangular gravel, trace silt, moist				170
10						SM	SILTY SAND: 2.5Y 5/6 light olive brown, medium to fine grained sand, silts, dry				165
15						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist				160
20							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist			155	
25							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist			150	
30							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist			145	
35							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist			140	
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace silt, dry to moist			135	

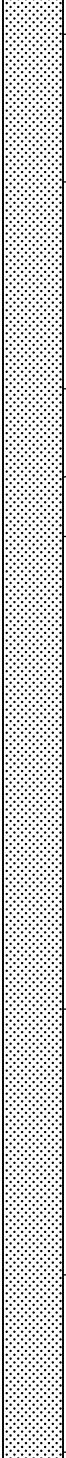
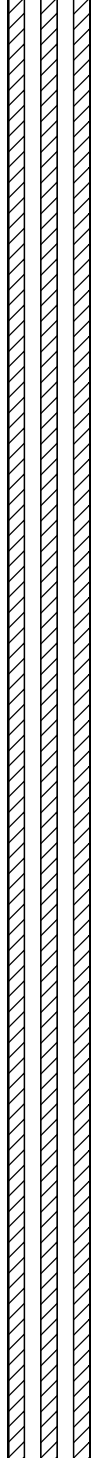


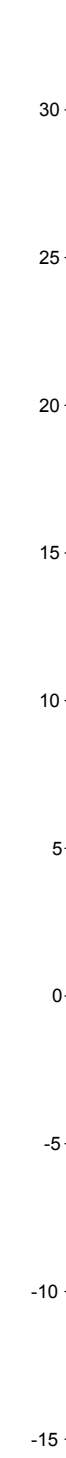










LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
40										130
45										125
50										120
55							SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, little fine sand, trace to little fine subrounded gravel, trace silt, dry			115
60										110
65										105
70										100
75							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace to little fine subangular to subrounded gravel, trace silt, dry			95
80										90
85										85

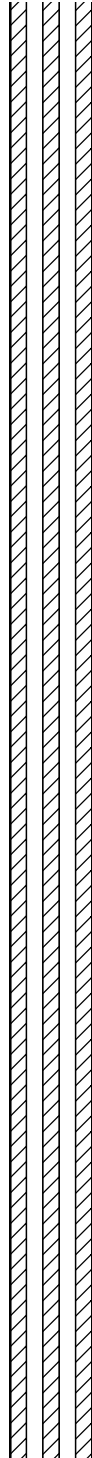
LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
90								<p>SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace to little subangular to subrounded gravel, trace silt, dry to moist</p>		80
95										75
100										70
105										65
110										60
115							<p>SAND: 2.5Y 6/6 olive yellow, medium grained, trace coarse sand, trace fine sand, trace fine subangular to subrounded gravel, trace silt, moist</p>			55
120							<p>SAND: 2.5Y 6/6 olive yellow, medium grained, trace to little coarse sand, trace to little fine sand, trace to little fine angular to subrounded gravel, trace silt, wet</p>			50
125							<p>SAND: 10YR 5/4 yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace angular to subrounded fine gravel, little silt, wet</p>			45
130							<p>SAND: 10YR 5/4 yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace angular to subrounded fine gravel, little silt, wet</p>			40
135							<p>SAND: 10YR 5/4 yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace angular to subrounded fine gravel, trace silts, wet</p>			35

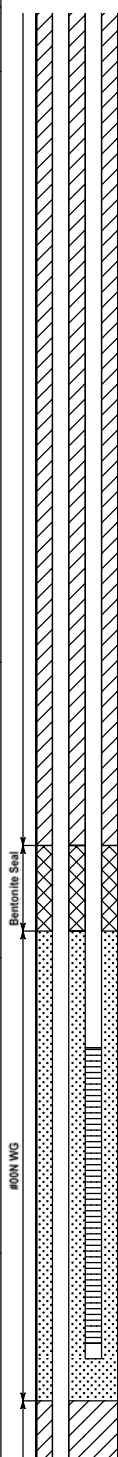
LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
140										30
145										25
150										20
155										15
160										10
165										5
170										0
175										-5
180										-10
185										-15

LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
190							SAND: 10YR 5/4 yellowish brown, medium grained, little fine sand, trace silts, wet		-20	
195									-25	
200							SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, trace to little silt, wet		-30	
205									-35	
210									-40	
215									-45	
220									-50	
225									-55	
230							SAND: 2.5Y 5/6 light olive brown, fine grained, little medium sand, trace fine subangular gravel, trace to little silt, wet		-60	
235									-65	

LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)	
240							SAND: 2.5Y 5/6 light olive brown, medium grained, some fine sand, trace silt, wet		-70	
245									-75	
250							SAND: 2.5Y 5/6 light olive brown, medium grained, some sand, trace fine sand, little fine subrounded gravel, trace silt, wet		-80	
255									-85	
260							SAND: 2.5Y 5/6 light olive brown, medium to coarse grained, trace fine sand, some fine rounded to subangular gravel, trace silt, wet		-90	
265									-95	
270							SAND: 10YR 4/6 dark yellowish brown, medium grained, trace coarse sand, trace fine sand, trace to little fine subrounded to subangular gravel, trace silt, wet		-100	
275									-105	
280									-110	
285									-115	

LOC ID: MW-372

Project Name: J-2 RANGE							Location:			
Northing: D: 4618810.40, M1: 4618810.45							Easting: D: 375466.33, M1: 375466.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
290										
295							SAND: 10YR 4/4 dark yellowish brown, medium grained, some coarse sand, trace fine sand, some fine subangular gravel, trace to little coarse subangular gravel, trace silt, wet			-120
300										-125
305										-130
310						GP	GRAVEL: 2.5Y 4/1 dark gray, coarse grained subrounded gravel, little coarse sand, little medium sand, trace fine sand, little silt, wet			-135
315						BR	BEDROCK: Granitic metamorphic bedrock, gray, micaceous, fractured, trace signs of iron staining			-140
320							Notes: 1. Well Depths MW-372D: 311.12 ft (BGS) MW-372M1: 283.58 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-372D: 10.00 ft MW-372M1: 10.00 ft 4. Screen Intervals MW-372D: 300.59 - 310.59 ft (BGS) MW-372M1: 273.05 - 283.05 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 172.56 ft (MSL)			-145
325										-150
										-155

Printed on 11/01/06


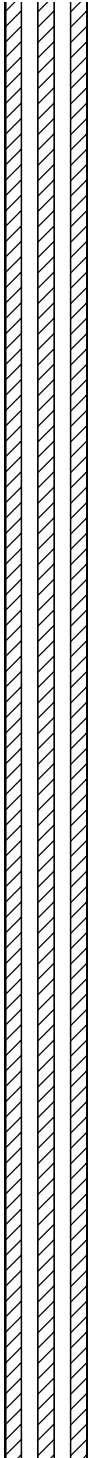
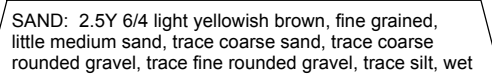

LOC ID: MW-381

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
35							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little coarse sand, little medium sand, trace rounded cobbles, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry			145
							SAND: 2.5Y 6/3 light yellowish brown, fine grained, trace coarse sand, trace medium sand, little fine subrounded gravel, trace to little coarse subrounded gravel, trace rounded cobbles, trace silt, dry			140
40						GP	SANDY GRAVEL: 10YR 5/3 brown, coarse subangular gravel, little fine subangular gravel, some fine sand, little medium sand, trace coarse sand, trace silt, dry			
						SP	GRAVELLY SAND: 10YR 5/4 yellowish brown, some medium grained sand, little coarse sand, little fine sand, little coarse subrounded gravel, little fine subrounded gravel, trace silt, dry			135
45							SAND: 2.5Y 5/3 light olive brown, medium grained, some fine sand, little coarse sand, little fine rounded gravel, trace coarse subrounded gravel, trace silt, dry			
							GRAVELLY SAND: 2.5Y 4/4 olive brown, some medium grained sand, little coarse sand, little fine sand, little coarse subrounded gravel, little fine subrounded gravel, trace silt, dry			130
50							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry			125
55							GRAVELLY SAND: 2.5Y 4/3 olive brown, fine grained sand, trace coarse sand, trace medium sand, little coarse subangular gravel, little fine subangular to subrounded gravel, trace silt, dry			120
60							GRAVELLY SAND: 2.5Y 5/4 olive brown, some medium grained sand, some fine sand, trace coarse sand, some coarse rounded gravel, trace to little fine rounded gravel, trace silt, dry			
65							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry			115
							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, dry			
							SAND: 2.5Y 6/4 light yellowish brown, fine grained,			


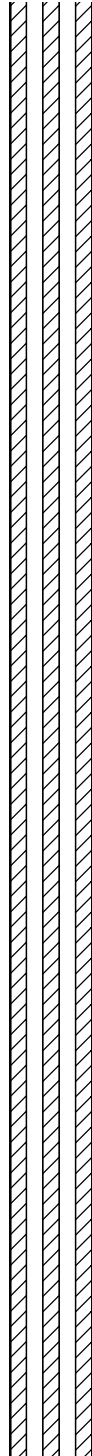
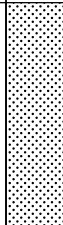
LOC ID: MW-381

Project Name: J-2 RANGE						Location:			
Northing: M1: 4618712.55, M2: 4618712.60						Easting: M1: 374499.33, M2: 374499.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
70							some medium sand, trace coarse sand, trace to little coarse rounded gravel, trace fine rounded gravel, trace silt, dry		110
75							SAND: 2.5Y 5/3 light olive brown, medium grained, some fine sand, trace coarse sand, little coarse subrounded gravel, trace fine rounded gravel, trace silt, dry		105
80							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace to little coarse rounded gravel, trace fine rounded gravel, trace silt, dry		100
85							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		95
90							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		90
95							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		85
							SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, dry		
100							SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, little coarse subangular to subrounded gravel, trace fine subrounded gravel, trace silt, dry		80
							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, little coarse rounded gravel, trace fine rounded gravel, trace silt, dry		
105							GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, little coarse sand, little fine sand, some coarse subrounded to rounded gravel, little fine rounded gravel, trace silt, dry		75
							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse		

LOC ID: MW-381

Project Name: J-2 RANGE							Location:				
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33				
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
110								rounded gravel, trace fine rounded gravel, trace silt, dry		70	
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		65	
115								NO SAMPLE; NO RECOVERY			
						SP		SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			60
120											55
											50
125								GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, little coarse sand, little fine sand, little coarse subrounded to rounded gravel, little fine rounded gravel, trace silt, wet		45	
130										40	
								SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		35	
135											
								SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			
140								SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			

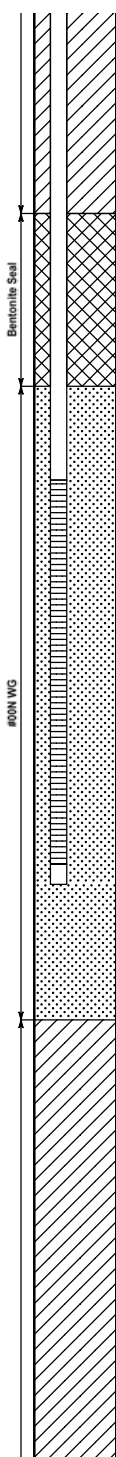
LOC ID: MW-381

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
145							 <div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		30	
150							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		25	
155							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, wet</div>		20	
160									15	
165									10	
170								NO SAMPLE; NO RECOVERY		5
175						SP	 <div>SAND: 2.5Y 6/4 light yellowish brown, fine and medium grained, trace coarse sand, trace fine rounded gravel, trace silt, wet</div>		0	
180							<div>SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace silt,</div>			

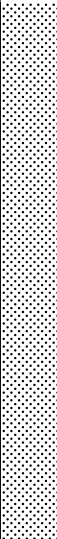
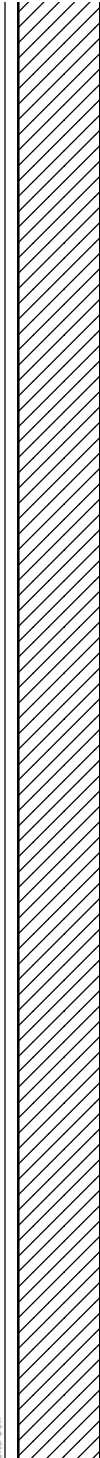
LOC ID: MW-381

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
185							wet SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, wet SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace fine subrounded gravel, trace silt, wet SAND: 2.5Y 6/4 light yellowish brown, medium grained, some fine sand, little coarse sand, little rounded gravel, trace to little coarse subrounded to rounded gravel, trace fine subrounded gravel, trace silt, wet	 Bentonite Seal #600 WG In-situ Soil	-5
190							NO SAMPLE; NO RECOVERY		-10
195						SPSM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine rounded gravel, trace to little silt		-15
200						SP	SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, wet GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, fine grained sand, little medium sand, trace coarse sand, some coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-20
205						ML	SILT: 2.5Y 5/4 light olive brown, some fine grained sand, trace medium sand, dry		-25
210						SP	SAND: 5Y 6/3 pale olive, medium grained, little coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet SAND: 2.5Y 6/6 olive yellow, medium grained, little fine sand, trace to little coarse sand, trace silt, wet SAND: 10YR 5/6 yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-30
215							SAND: 10YR 5/8 yellowish brown, medium grained, little coarse sand, trace to little fine sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet NO SAMPLE; NO RECOVERY		-35
220						SP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, some fine sand, little coarse sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet		-40
						SM	SAND: 2.5Y 6/6 olive yellow, fine grained, little silt, wet		

LOC ID: MW-381

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
225						SP	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet		-45
230						ML	SILT: 2.5Y 5/4 light olive brown, little fine grained sand, trace coarse sand, trace medium sand, little clay, dry		-50
235							NO SAMPLE; NO RECOVERY		-55
240						ML	SILT: 2.5Y 5/4 light olive brown, little fine grained sand, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace clay, dry		-60
245						SM	SAND: 2.5Y 5/5 light olive brown, fine grained, little medium sand, trace coarse sand, little silt, trace coarse rounded gravel, trace fine rounded gravel, wet		-65
250						ML	SILT: 2.5Y 5/4 light olive brown, little fine grained sand, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace clay, dry		-70
255						SP	SAND: 10YR 5/8 yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace silt, wet; iron staining @ 239' bgs contact		-75
							SAND: 2.5Y 6/6 olive yellow, some medium grained sand, some fine sand, trace to little coarse sand, little coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-80
							GRAVELLY SAND: 2.5Y 5/6 light olive brown, some medium grained sand, little coarse sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, trace rounded cobbles, trace silt, wet		-85
							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded to rounded gravel, trace fine subrounded to rounded gravel, trace silt, wet		-90
							SAND: 2.5Y 6/3 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, wet		-95
							SAND: 2.5Y 6/6 olive yellow, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet		-100
							SAND: 2.5Y 6/4 light yellowish brown, medium grained,		-105

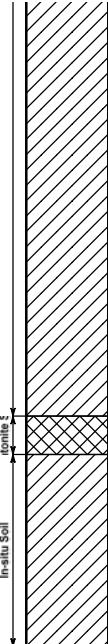
LOC ID: MW-381

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
260							 <div>some fine sand, little coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div>		-85
265							<div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace fine rounded gravel, trace silt, wet</div>		-90
270							<div>SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, trace to little coarse sand, little coarse roudned gravel, trace fine rounded gravel, trace silt, wet</div>		-95
275							NO SAMPLE; NO RECOVERY		-100
280						SP	<div>SAND: 2.5Y 6/6 olive yellow, medium grained, some fine sand, trace to little coarse sand, little coarse roudned gravel, trace fien rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 6/6 olive yellow, fine grained, little medium sand, trace coarse sand, trace fine rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 5/6 light olive brown, medium grained sand, little coarse sand, little fine sand, little fine rounded gravel, trace to little coarse rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 6/6 olive yellow, fine grained, some medium sand, trace coarse sand, trace rounded gravel, trace fine rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 5/6 light olive brown, fine grained, trace coarse sand, trace medium sand, trace silt, wet</div> <div>SAND: 10YR 5/8 yellowish brown, fine and medium grained, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet</div> <div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace silt, wet</div> <div>SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace silt, wet</div>		-110
285									-115
290									
295									

LOC ID: MW-381

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
300										-120
305										-125
310							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace silt, wet			-130
315							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace medium sand, trace silt, wet; iron staining @ 310' bgs			-135
320							SAND: 5Y 4/3 olive, fine grained, trace silt, wet			-140
						ML	SILT: 5Y 4/3 olive, some fine grained sand, dry			-140
						SP	SAND: 5Y 4/3 olive, fine grained, trace silt, wet			-140
						ML	SILTY SAND: 5Y 4/3 olive, fine grained sand, wet			-145
						SP	SAND: 5Y 4/3 olive, fine grained, trace silt, wet			-145
325						ML	SILT: 5Y 4/3 olive, some fine grained sand, dry			-150
330							SILT: 5Y 4/3 olive, little clay, trace fine grained sand, dry			-155
335							SILT: 5Y 5/3 olive, little clay, trace fine grained sand, dry			-155

LOC ID: MW-381

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618712.55, M2: 4618712.60							Easting: M1: 374499.33, M2: 374499.33			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
340									-160	
345						SM	GRAVELLY SAND: 2.5Y 4/4 olive, little coarse grained sand, little medium san, little fine sand, little coarse subrounded to rounded gravel, little fine subrounded to rounded gravel, little silt, trace clay, dry;		-165	
350						BR	BEDROCK: Top of bedrock @ 347' bgs		-170	
355							Notes: 1. Well Depths MW-381M1: 243.47 ft (BGS) MW-381M2: 206.92 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-381M1: 10.00 ft MW-381M2: 10.00 ft 4. Screen Intervals MW-381M1: 232.94 - 242.94 ft (BGS) MW-381M2: 196.39 - 206.39 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 178.22 ft (MSL)		-175	
360							Printed on 11/01/06		-180	

LOC ID: MW-388

Project Name: J-2 RANGE				Location:			
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36				Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): M1: 141.25, M2: 141.25, M3: 141.25 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): M1: 185.23, M2: 154.80, M3: 96.05				
Drilling Method: DUAL ROTARY			BH Depth/Diam: 293.50 ft (BGS), 8.00 in.		First Water ft (BGS): 85		
Sampling Method: Stainless Steel Bailer			Start/End Date: 07/13/05 - 08/03/05		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 69.71		
Logged by: J. Cummings		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 05/01/06	

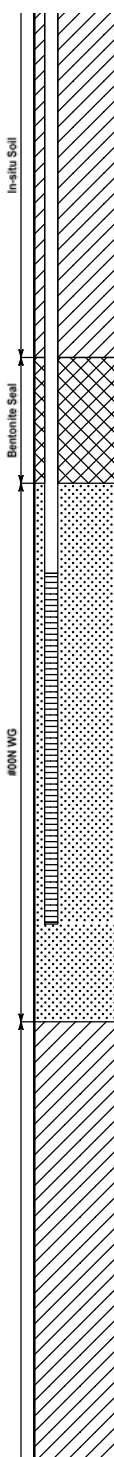
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					20	45	70				
					Conductivity						
					2	6	10				
0											
								SP	SAND: 10YR 4/6 dark yellowish brown, medium grained, trace to little coarse sand, trace to little fine sand, trace fine subangular to subrounded gravel, trace silt, dry		
5									GRAVELLY SAND: 7.5Y 4/6 strong brown, medium grained sand, trace to little fine sand, little coarse sand, some fine angular to subrounded gravel, trace coarse subangular gravel, trace silt, dry		
10									BOULDERS: Granite boulders (pinkish gray in color)		
15								GP	GRAVEL: 10YR 5/4 yellowish brown, coarse subangular to subrounded gravel, some fine angular to subrounded gravel, some fine sand, trace medium sand, trace to little coarse sand, trace silt, dry		
20								SP	SAND: 2.5Y 6/6 olive yellow, medium grained, trace coarse sand, little fine sand, trace subangular to subrounded gravel, trace silt, dry		
25									SAND: 2.5Y 5/6 light olive brown, medium grained, trace to little coarse sand, trace to little fine sand, trace to little coarse subangular to subrounded gravel, trace to little subangular to subrounded gravel, trace silt, dry		
30									SAND: 2.5Y 5/6 light olive brown, medium grained, little coarse sand, trace fine sand, trace to little fine subangular to rounded gravel, trace silt, dry		

M1 M2 M3

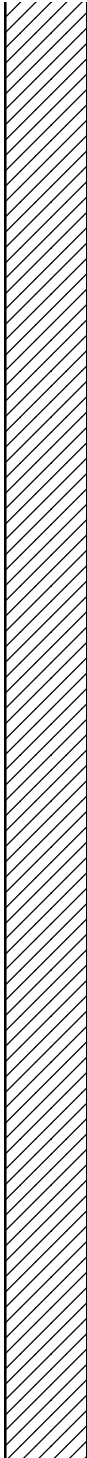
LOC ID: MW-388

Project Name: J-2 RANGE							Location:		
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36							Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
120									20
125							SAND: 2.5Y 5/6 light olive brown, medium grained, trace coarse sand, trace fine sand, trace to little coarse subrounded gravel, trace fine subangular to subrounded gravel, trace silt, wet		15
130							SAND: 2.5Y 5/6 light olive brown, medium grained, trace coarse sand, trace fine sand, trace silt, wet		10
135							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace to little fine sand, trace subrounded gravel, trace silt, wet		5
140							SAND: 2.5Y 5/6 light olive brown, medium grained, trace coarse sand, trace fine sand, trace silt, wet		0
145									-5
150							SAND: 2.5Y 6/6 olive yellow, fine grained, little medium sand, trace coarse sand, trace silt, wet		-10
155									-15

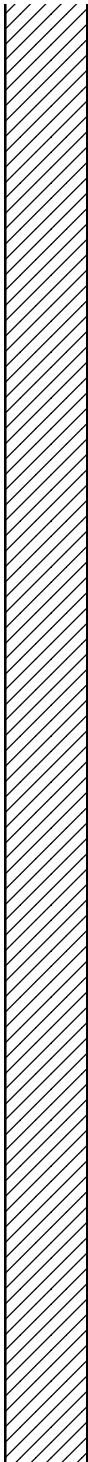
LOC ID: MW-388

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36							Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
160										-20
165							SAND: 2.5Y 6/6 olive yellow, medium grained, little coarse sand, trace fien sand, little fine subangular to subrounded grave, trace coarse subrounded gravel, trace silt, wet			-25
170							SAND: 2.5Y 5/6 light olive brown, medium grained, trace to little fine sand, trace coarse sand, trace fine subangular to subrounded gravel, trace silt, wet			-30
175							SAND: 2.5Y 6/6 olive yellow, medium grained, trace to little coarse sand, trace fine sand, trace to little fine subrounded gravel, trace coarse subrounded gravel, trace silt, wet			-35
180							SAND: 2.5Y 5/6 light olive brown, medium grained, trace fine sand, trace coarse sand, trace fine subangular to subrounded gravel, trace coarse subrounded gravel, wet			-40
185										-45
190								SAND: 5Y 5/3 olive, coarse grained, little medium sand, trace fine sand, trace fine subrounded gravel, trace silt, wet		-50
195										-55
200								SAND: 5Y 5/3 olive, coarse grained, little medium		-60

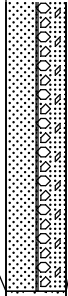
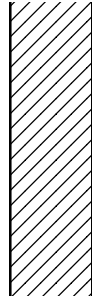
LOC ID: MW-388

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36							Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205									-65	
210						GP	GRAVEL: mixed colors (and component 2.5Y 5/3 light olive brown), fine subangular to subrounded gravel, little coarse rounded gravel, some medium grained sand, little coarse sand, trace fine sand, trace silt, wet		-70	
215									-75	
220									-80	
225						SP	SAND: 2.5Y 5/3 light olive brown, medium grained, some coarse sand, trace fine sand, trace fine subangular gravel, trace silt, wet		-85	
230									-90	
235									-95	
240									-100	

LOC ID: MW-388

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36							Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
245										-105
250										-110
255										-115
260										-120
265										-125
270									-130	
275						ML		SILT: 2.5Y 5/6 light olive brown, some fine grained sand, wet		-135
280						SPGP		SAND AND GRAVEL: 2.5Y 5/1 gray, coarse grained sand, coarse angular to subangular gravel (mixed colors), trace to little silt, wet		-140
285										

LOC ID: MW-388

Project Name: J-2 RANGE							Location:			
Northing: M1: 4618221.26, M2: 4618221.31, M3: 4618221.36							Easting: M1: 374192.92, M2: 374192.92, M3: 374192.92			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
290										
295						BR	 BEDROCK: gray very angular to angular fine granitic chips		-145	
300							Notes: 1. Well Depths MW-388M1: 185.23 ft (BGS) MW-388M2: 154.80 ft (BGS) MW-388M3: 96.05 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-388M1: 10.00 ft MW-388M2: 10.00 ft MW-388M3: 10.00 ft 4. Screen Intervals MW-388M1: 175.18 - 185.18 ft (BGS) MW-388M2: 144.75 - 154.75 ft (BGS) MW-388M3: 86.03 - 96.03 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 140.91 ft (MSL)		-155	
305										-160

LOC ID: MW-393

Project Name: J-2 RANGE				Location:			
Northing: D: 4618805.31, M1: 4618805.36, M2: 4618805.41				Easting: D: 374983.69, M1: 374983.69, M2: 374983.69			
Drilling Contractor: D. L. Maher Co.			Elevation ft (MSL): D: 156.38, M1: 156.38, M2: 156.38 @ Top PVC				
Drilling Equipment: Dual Air Rotary			Well Depth ft (BGS): D: 324.10, M1: 278.56, M2: 228.36				
Drilling Method: DUAL ROTARY			BH Depth/Diam: 325.42 ft (BGS), 8.00 in.		First Water ft (BGS): 103		
Sampling Method: Stainless Steel Bailer			Start/End Date: 08/18/05 - 09/20/05		Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC			Project Number: 35AY5301		Static Water ft (BTOC): 85.96		
Logged by: L. Baerga		Reviewed by: Larry Pannell, PG		Completion: Flushmount		Date Measured: 06/22/06	

Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					CPS 20 45 70 Conductivity						
0											160
								SM	SAND: 10YR 5/4 yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, little silt, dry/damp		155
5								SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, trace silt, dry		150
10									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, dry		145
15									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subangular gravel, trace silt, dry		140
20									SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace silt, dry		135
25								GP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subangular gravel, trace silt, dry GRAVEL: Broken-up gravel-sized rock fragments		130
30								SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subrounded gravel, trace silt, dry		125
35											120
40									GRAVELLY SAND: 10YR 6/4 light yellowish brown, medium grained sand, little coarse sand, trace fine sand, trace coarse angular to subangular gravel, some fine angular to subangular gravel, trace silt, dry		115
								SW	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown,		

[illegible]

LOC ID: MW-393

Project Name: J-2 RANGE							Location:			
Northing: D: 4618805.31, M1: 4618805.36, M2: 4618805.41							Easting: D: 374983.69, M1: 374983.69, M2: 374983.69			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
100										60
105						SW	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, little coarse angular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet			55
110										50
115							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace to little coarse angular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet			45
120										40
125						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace coarse angular to subrounded gravel, some fine angular to subrounded gravel, trace silt, wet			35
130										30
135										25
140							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, wet			20
145							SAND: 2.5Y 5/4 light olive brown, medium grained, fine sand, trace silt, wet			15
						SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, little fine sand, trace fine angular to subrounded gravel, trace to little silt, wet			10

[illegible]

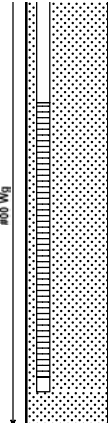
LOC ID: MW-393

Project Name: J-2 RANGE							Location:			
Northing: D: 4618805.31, M1: 4618805.36, M2: 4618805.41							Easting: D: 374983.69, M1: 374983.69, M2: 374983.69			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205										
210										
215						SM	SAND: 2.5Y 5/4 light olive brown, very fine grained, little silt, trace clay, wet			
220										
225										
230										
235										
240										
245						SPSM	SAND: 2.5Y 5/4 light olive brown, fine grained, trace fine angular gravel, trace to little silt, wet			
250							SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, trace coarse sand, trace to little fine angular to subrounded gravel, trace to little silt, wet			
255						SM	SAND: 2.5Y 5/4 light olive brown, medium grained, some fine sand, trace to little coarse sand, trace fine angular to subrounded gravel, little silt, wet			

LOC ID: MW-393

Project Name: J-2 RANGE							Location:		
Northing: D: 4618805.31, M1: 4618805.36, M2: 4618805.41							Easting: D: 374983.69, M1: 374983.69, M2: 374983.69		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
260									-100
265						SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace to little fine angular to subrounded gravel, trace to little silt, wet		-105
270									-110
275							SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse sand, little fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, trace to little silt, wet		-115
280									-120
285						GP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, medium grained sand, some coarse sand, trace to little fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, wet		-125
290									-130
295									-135
300						SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, some fine sand, trace to little silt, wet		-140
305									-145
							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, some fine sand, trace coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace to little silt, wet		-150

LOC ID: MW-393

Project Name: J-2 RANGE							Location:			
Northing: D: 4618805.31, M1: 4618805.36, M2: 4618805.41							Easting: D: 374983.69, M1: 374983.69, M2: 374983.69			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										-155
315						GP	GRAVEL: 2.5Y 5/4 light olive brown, angular to subrounded fine gravel, little coarse angular to subrounded gravel, little coarse sand, some medium sand, trace fine sand, trace to little silt, wet			-160
320						SPSM	SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace to little silt, wet			-165
325						BR	BEDROCK: Gray angular gravel and sand sized crystalline rock fragments, single lithology			-170
330							Notes: 1. Well Depths MW-393D: 324.10 ft (BGS) MW-393M1: 278.56 ft (BGS) MW-393M2: 228.36 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-393D: 10.00 ft MW-393M1: 10.00 ft MW-393M2: 10.00 ft 4. Screen Intervals MW-393D: 313.56 - 323.56 ft (BGS) MW-393M1: 268.02 - 278.02 ft (BGS) MW-393M2: 218.16 - 228.16 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 156.51 ft (MSL)			-175
335										-180
340										

LOC ID: MW-399

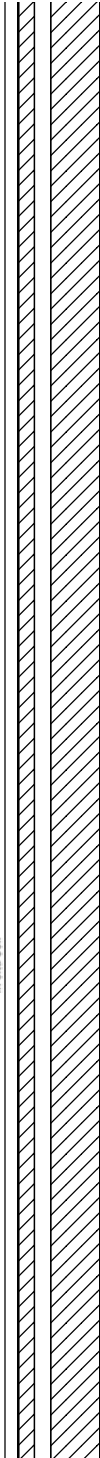
Project Name: J-2 RANGE										Location:											
Northing: M1: 4619565.05, M2: 4619565.10										Easting: M1: 375098.02, M2: 375098.02											
Drilling Contractor: D. L. Maher Co.										Elevation ft (MSL): M1: 164.90, M2: 164.90 @ Top PVC											
Drilling Equipment: Dual Air Rotary										Well Depth ft (BGS): M1: 248.68, M2: 135.15											
Drilling Method: DUAL ROTARY										BH Depth/Diam: 324.25 ft (BGS), 8.00 in.					First Water ft (BGS): 110						
Sampling Method: Stainless Steel Bailer										Start/End Date: 09/27/05 - 10/24/05					Well Diameter (in.): 2.50						
Const. Materials SCH 80 PVC										Project Number: 35AY5301					Static Water ft (BTOC): 95.93						
Logged by: L. Baerga					Reviewed by: Larry Pannell, PG					Completion: Flushmount										Date Measured: 07/06/06	
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log			USCS Class	Lithologic Description and Associated Lithographic Symbol										Well Construction Diagram	Elevation (ft msl)	
					CPS	Conductivity															
					20	45	70														
					2	6	10														
0								SM		SAND: 2.5Y 6/3 light yellowish brown, fine grained, some coarse sand, little medium sand, little fine angular gravel, little silt, dry											165
5								SP		SAND: 2.5Y 6/3 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine angular gravel, trace silt, dry											160
10										SAND: 10YR 6/4 light yellowish brown, medium grained, little coarse sand, trace fine sand, trace coarse angular gravel, little fine angular gravel, trace silt, dry											155
15										SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace coarse angular gravel, little fine angular gravel, trace silt, dry											150
20																					145
25																					140
30																					135
35										SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace to little coarse angular gravel, trace to little fine angular gravel, trace silt, dry											130
40																					125

Project Name: J-2 RANGE										Location:	
Northing: M1: 4619565.05, M2: 4619565.10										Easting: M1: 375098.02, M2: 375098.02	
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)	
45						GP	GRAVEL: gravel and broken-up cobbles			120	
50						SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine sand, trace to little coarse angular gravel, trace to little fine angular gravel, trace silt, dry			115	
55							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular gravel, trace silt, dry			110	
60							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace coarse angular gravel, trace fine angular gravel, trace silt, dry			105	
65										100	
70							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace coarse sand, trace fine sand, trace fine angular to subrounded gravel, trace silt, dry/damp			95	
75										90	
80										85	
85										80	
90										75	
95										70	

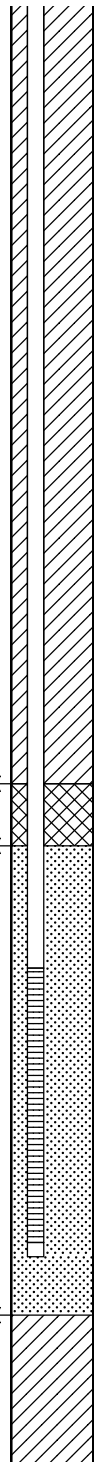
LOC ID: MW-399

Project Name: J-2 RANGE							Location:		
Northing: M1: 4619565.05, M2: 4619565.10							Easting: M1: 375098.02, M2: 375098.02		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
100							<div><div></div><div>SAND: 2.5Y 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, trace coarse angular to subrounded gravel, trace fine angular to subrounded gravel, trace silt, damp</div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	

LOC ID: MW-399

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619565.05, M2: 4619565.10							Easting: M1: 375098.02, M2: 375098.02			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150										10
155							SAND: 2.5Y 6/4 light yellowish brown, medium grained, trace to little coarse sand, trace fine subangular to subrounded gravel, trace silt, wet			5
160										0
165							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace silt, wet			-5
170						SPSM	SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, trace fine sand, trace to little silt, wet			-10
175										-15
180									-20	
185							SAND: 2.5Y 5/4 light olive brown, medium grained, trace coarse sand, some fine sand, trace to little silt, wet		-25	
190							SAND: 2.5Y 5/4 light olive brown, fine grained, trace coarse sand, little medium sand, trace to little silt, wet		-30	
195									-35	
200						SM	SAND: 2.5Y 5/1 gray, fine grained, trace coarse sand, trace medium sand, little silt, wet			

LOC ID: MW-399

Project Name: J-2 RANGE							Location:		
Northing: M1: 4619565.05, M2: 4619565.10							Easting: M1: 375098.02, M2: 375098.02		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
205						SP			-40
210							SAND: 2.5Y 5/2 grayish brown, coarse grained, some medium sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace silt, wet		-45
215							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, trace to little fine subangular to subrounded gravel, trace silt, wet		-50
220						SPSM	SAND: 10YR 6/4 light yellowish brown, medium grained, some coarse sand, trace fine sand, little fine subangular to subrounded gravel, trace silt, wet		-55
225								-60	
230								-65	
235									-70
240							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace to little silt, wet		-75
245									-80
250							SAND: 2.5Y 5/4 light olive brown, medium grained, some coarse sand, trace fine sand, trace coarse subangular to subrounded gravel, little fine subangular to subrounded gravel, trace to little silt, wet		-85
255									-90

[illegible]

Project Name: J-2 RANGE										Location:	
Northing: M1: 4619565.05, M2: 4619565.10										Easting: M1: 375098.02, M2: 375098.02	
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity			USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)
					2	6	10				
310											
315								SPGP	SAND: 2.5Y 5/4 light olive brown, medium grained, trace to little coarse subangular to subrounded gravel, some fine subangular to subrounded gravel, trace silt, wet		-150
320											-155
325								BR	BEDROCK: Gravel sized angular fragments of black, gray, pink crystalline rock with granitic composition		-160
330									Notes: 1. Well Depths MW-399M1: 248.68 ft (BGS) MW-399M2: 135.15 ft (BGS) 2. SCH 80 PVC Screens 3. Screen lengths MW-399M1: 10.00 ft MW-399M2: 10.00 ft 4. Screen Intervals MW-399M1: 238.16 - 248.16 ft (BGS) MW-399M2: 124.83 - 134.83 ft (BGS) 5. Slot Size 0.010 in. 6. Surface Elevation: 164.61 ft (MSL)		-165
335											-170
									Printed on 01/10/07		-175

LOC ID: MW-436

Project Name: J-2 RANGE						Location:						
Northing: M1: 4619279.38, M2: 4619279.43						Easting: M1: 375181.85, M2: 375181.85						
Drilling Contractor: D. L. Maher Co.						Elevation ft (MSL): M1: 177.31, M2: 177.31 @ Top PVC						
Drilling Equipment: Dual Air Rotary						Well Depth ft (BGS): M1: 306.02, M2: 246.00						
Drilling Method: DUAL ROTARY						BH Depth/Diam: 346.31 ft (BGS), 8.00 in.				First Water ft (BGS): 110		
Sampling Method: Stainless Steel Bailer						Start/End Date: 03/24/06 - 04/06/06				Well Diameter (in.): 2.50		
Const. Materials SCH 80 PVC						Project Number: 35AY5301				Static Water ft (BTOC): 107.46		
Logged by: D. Melcher			Reviewed by: Larry Pannell, PG			Completion: Flushmount				Date Measured: 08/15/06		
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample ID	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol				Well Construction Diagram	Elevation (ft msl)
0					20 45 70 6 10	SP	SAND: 2.5Y 6/4 light yellowish brown, medium grained, little fine sand, trace coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, dry				M1 M2	180
5												175
10												170
15												165
20												160
25												155
30												150
35												145
40												140
												135

Project Name: J-2 RANGE							Location:					
Northing: M1: 4619279.38, M2: 4619279.43							Easting: M1: 375181.85, M2: 375181.85					
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol	Well Construction Diagram	Elevation (ft msl)			
100									80			
									75			
105							SAND: 2.5Y 7/4 pale yellow, medium grained, some fine sand, trace coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, dry		70			
110							GRAVELLY SAND: 2.5Y 7/4 pale yellow, some coarse grained sand, little medium sand, little fine sand, some fine rounded grael, little coarse rounded gravel, trace silt, wet		65			
115							SAND: 2.5Y 7/4 pale yellow, fine and medium grained, trace coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet		60			
120							SAND: 2.5Y 7/4 pale yellow, medium grained, some coarse sand, little fine sand, little fine rounded gravel, trace silt, wet		55			
125						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, little silt, trace coarse rounded gravel, trace fine rounded gravel, wet		50			
130						SP	SAND: 2.5Y 7/4 pale yellow, medium grained, little coarse sand, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet		45			
135									40			
140									35			
145							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, little coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet		30			

LOC ID: MW-436

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619279.38, M2: 4619279.43							Easting: M1: 375181.85, M2: 375181.85			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
150										25
155							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			20
160							SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			15
165							SAND: 2.5Y 6/4 light yellowish brown, fine grained, some medium sand, trace coarse sand, trace coarse subrounded gravel, trace fine subrounded to rounded gravel, trace silt, wet			10
170										5
175										0
180										-5
185						ML	SILT: 2.5Y 5/4 light olive brown, trace fine subrounded gravel, trace coarse sand, trace medium sand, trace fine sand, damp			-10
190						SM	SAND: 2.5Y 6/4 light yellowish brown, fine grained, trace coarse sand, trace medium sand, little fine subrounded to rounded gravel, little silt, wet			-15
195						SP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, little coarse sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet			-20
200							GRAVELLY SAND: 10YR 5/6 yellowish brown, some coarse grained sand, some medium sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet			-25

LOC ID: MW-436

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619279.38, M2: 4619279.43							Easting: M1: 375181.85, M2: 375181.85			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity 2 6 10	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
205										-30
210							SAND: 2.5Y 6/4 light yellowish brown, medium grained, little coarse sand, little fine sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet			-35
215										-40
220										-45
225										-50
230							SAND: 2.5Y 6/4 light yellowish brown, fine grained, little medium sand, trace coarse sand, trace coarse rounded gravel, trace fine rounded gravel, trace silt, wet			-55
235										-60
240										-65
245										-70
250						SM	SAND: 2.5Y 5/4 light olive brown, fine grained, little medium sand, trace coarse sand, some silt, wet			-75
255										

LOC ID: MW-436

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619279.38, M2: 4619279.43							Easting: M1: 375181.85, M2: 375181.85			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
260										-80
265							SAND: 2.5Y 5/4 light olive brown, medium grained, little fine sand, trace to little coarse sand, little silt, trace to little fine angular to rounded gravel, trace coarse angular to rounded gravel, wet			-85
270										-90
275										-95
280							SAND: 2.5Y 5/4 light olive brown, medium grained, little coarse sand, trace to little fine sand, little coarse angular to rounded gravel, little fine angular to rounded gravel, little silt, wet			-100
285										-105
290						SP	GRAVELLY SAND: 2.5Y 6/4 light yellowish brown, some medium grained sand, little coarse sand, little fine sand, little coarse rounded gravel, little fine rounded gravel, trace silt, wet			-110
295										-115
300							GRAVELLY SAND: 2.5Y 5/4 light olive brown, medium grained sand, little coarse sand, trace to little fine sand, little coarse angular to subrounded gravel, little fine angular to subrounded gravel, trace silt, wet			-120
305										-125
										-130

LOC ID: MW-436

Project Name: J-2 RANGE							Location:			
Northing: M1: 4619279.38, M2: 4619279.43							Easting: M1: 375181.85, M2: 375181.85			
Depth ft (BGS)	Blow Counts Per 6 Inches	Sample Interval /Recovery	Sample Id	PID/FID	Gamma Log CPS Conductivity	USCS Class	Lithologic Description and Associated Lithographic Symbol		Well Construction Diagram	Elevation (ft msl)
310										
315										
320										
325										
330										
335										
340										
345						SM				
						BR				
350										
355										
360										